

FIG. 1A

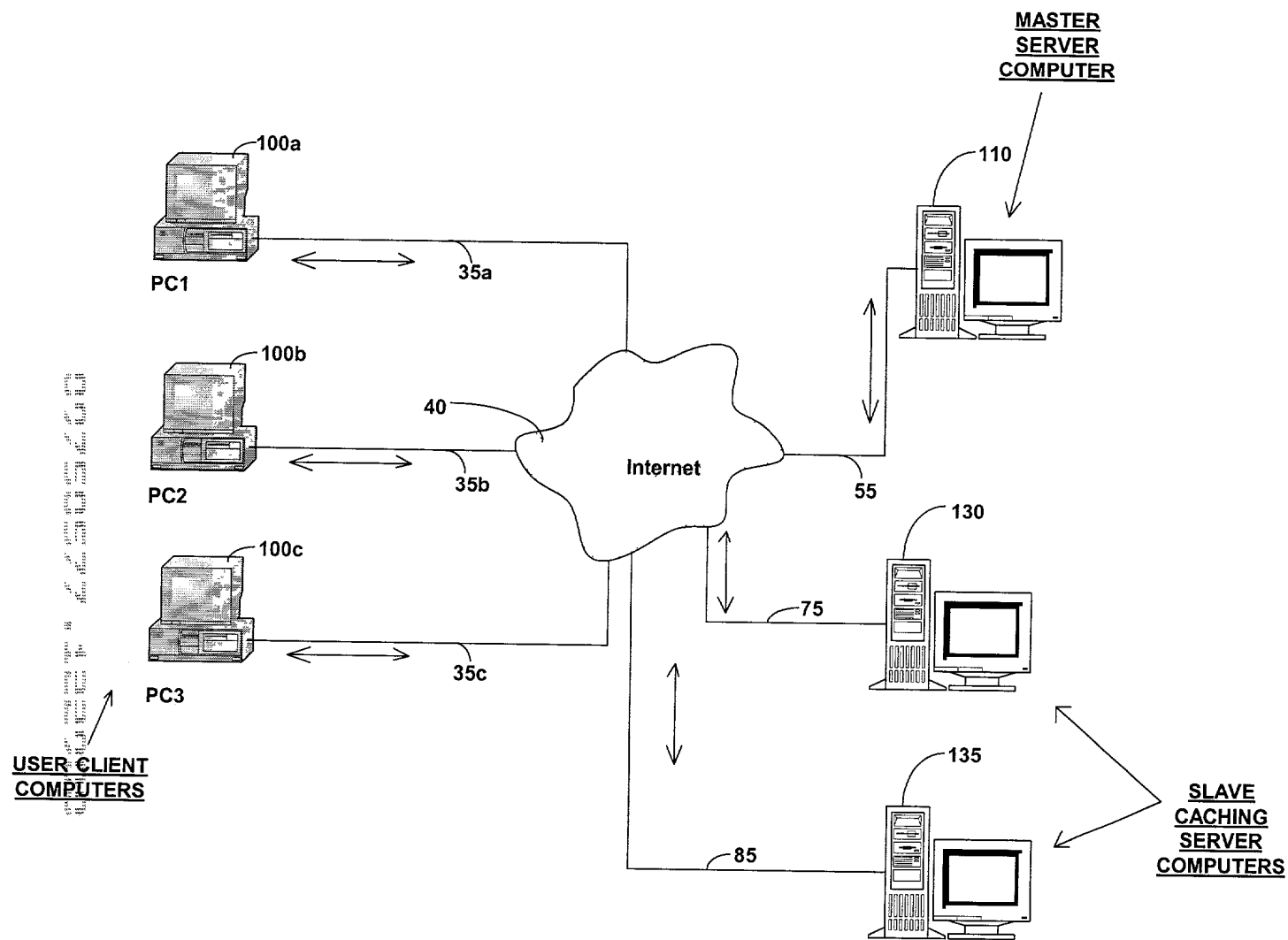


FIG. 1B

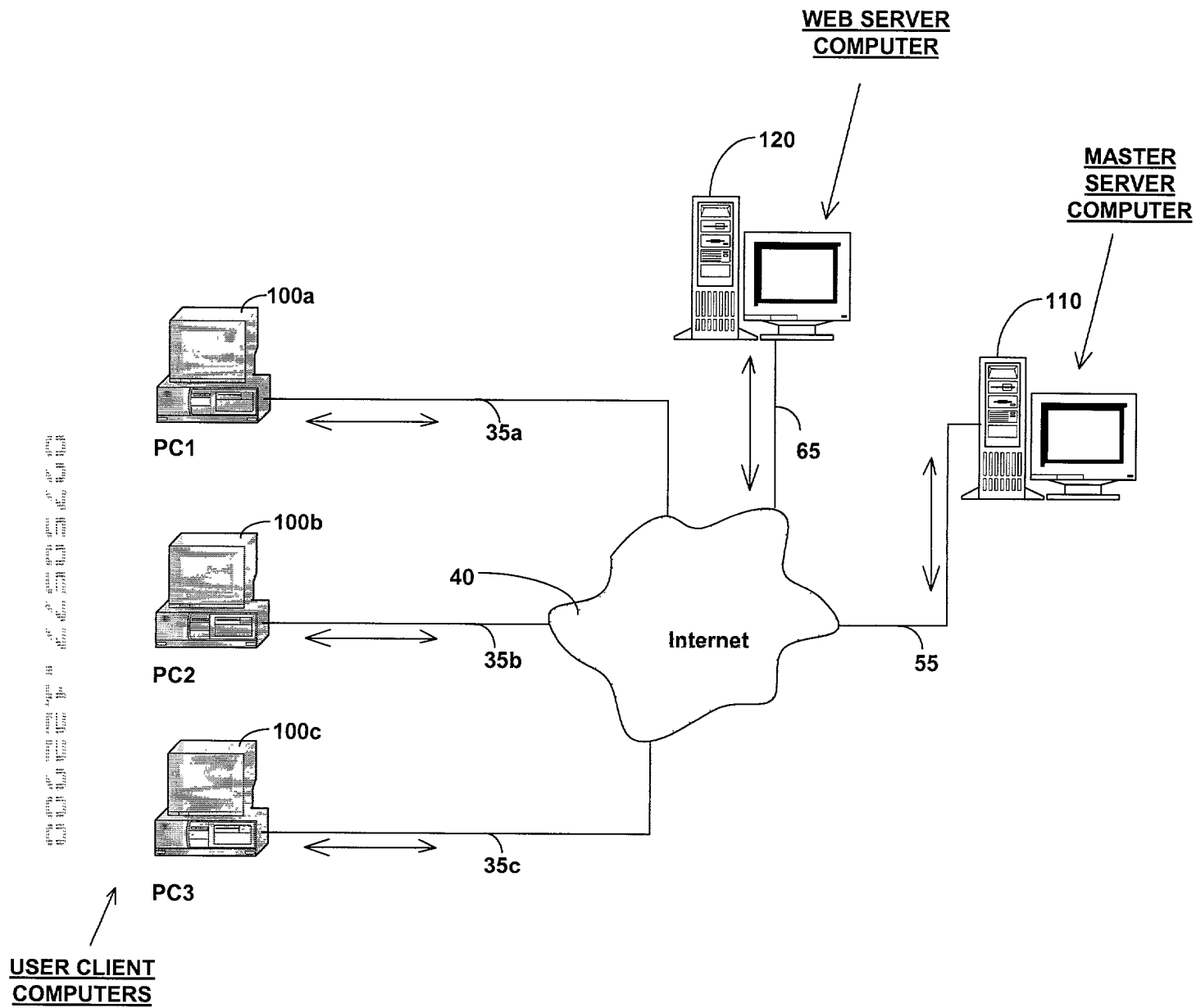


FIG. 1C

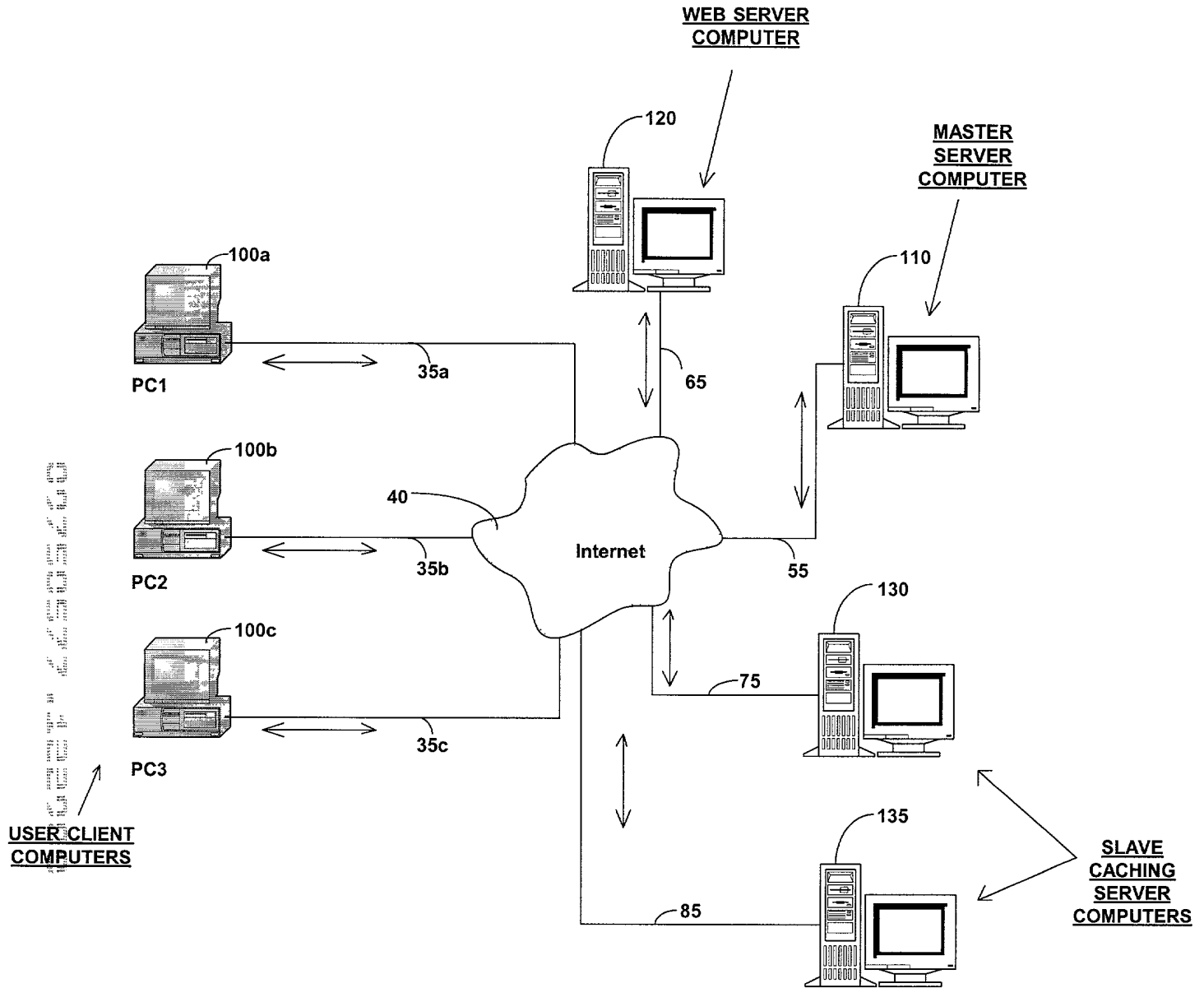


FIG. 1D

FIG. 2A(1)

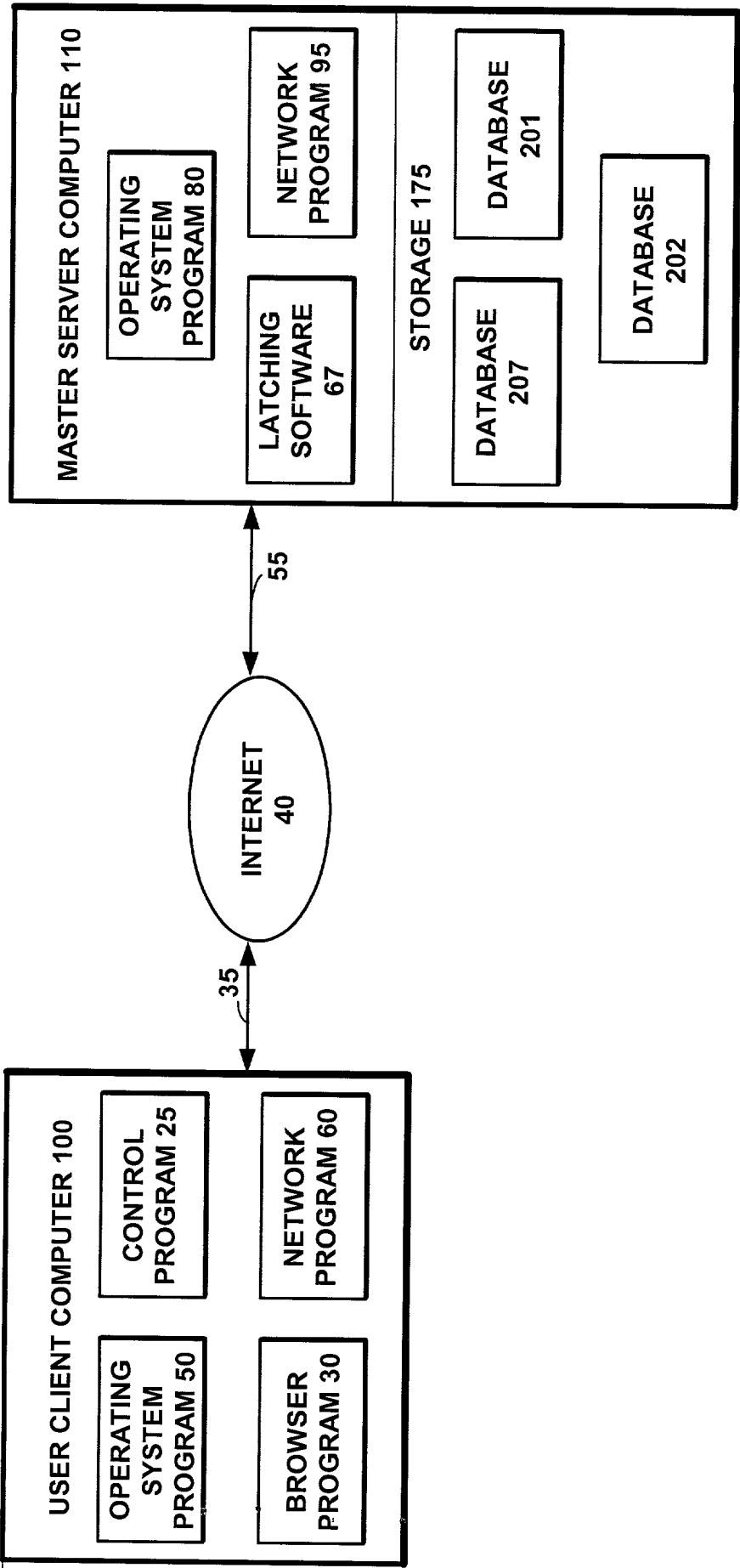


FIG. 2A(2)

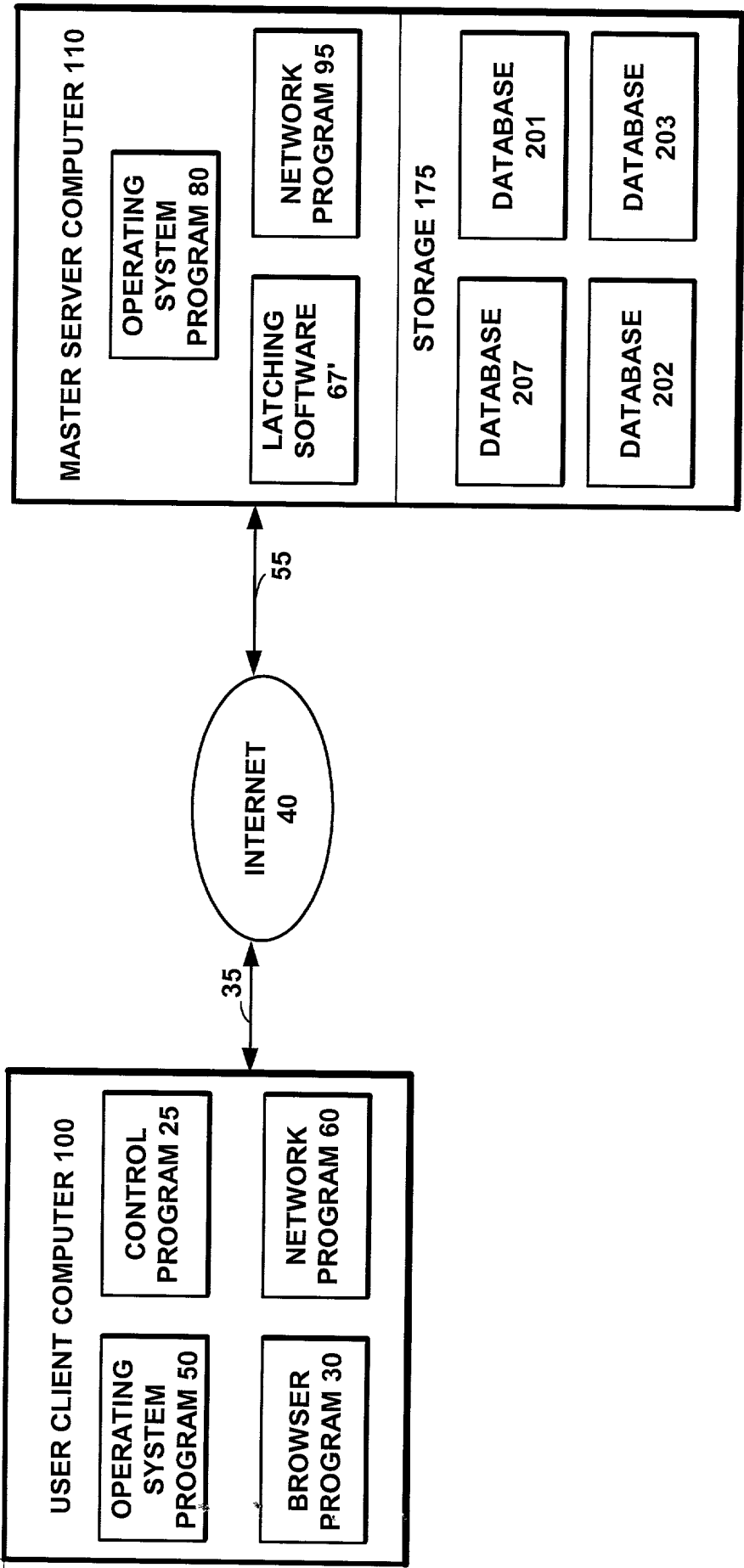
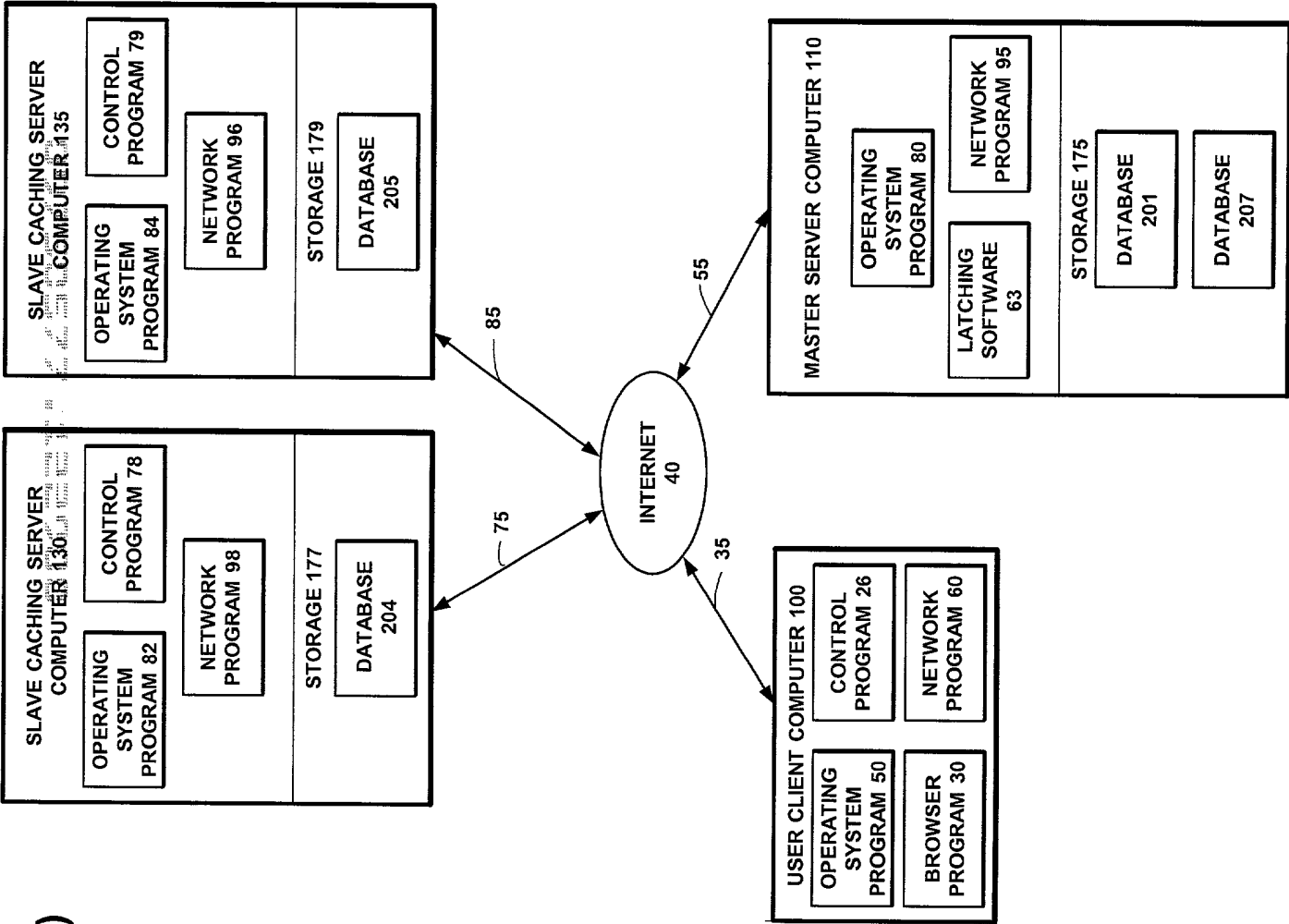
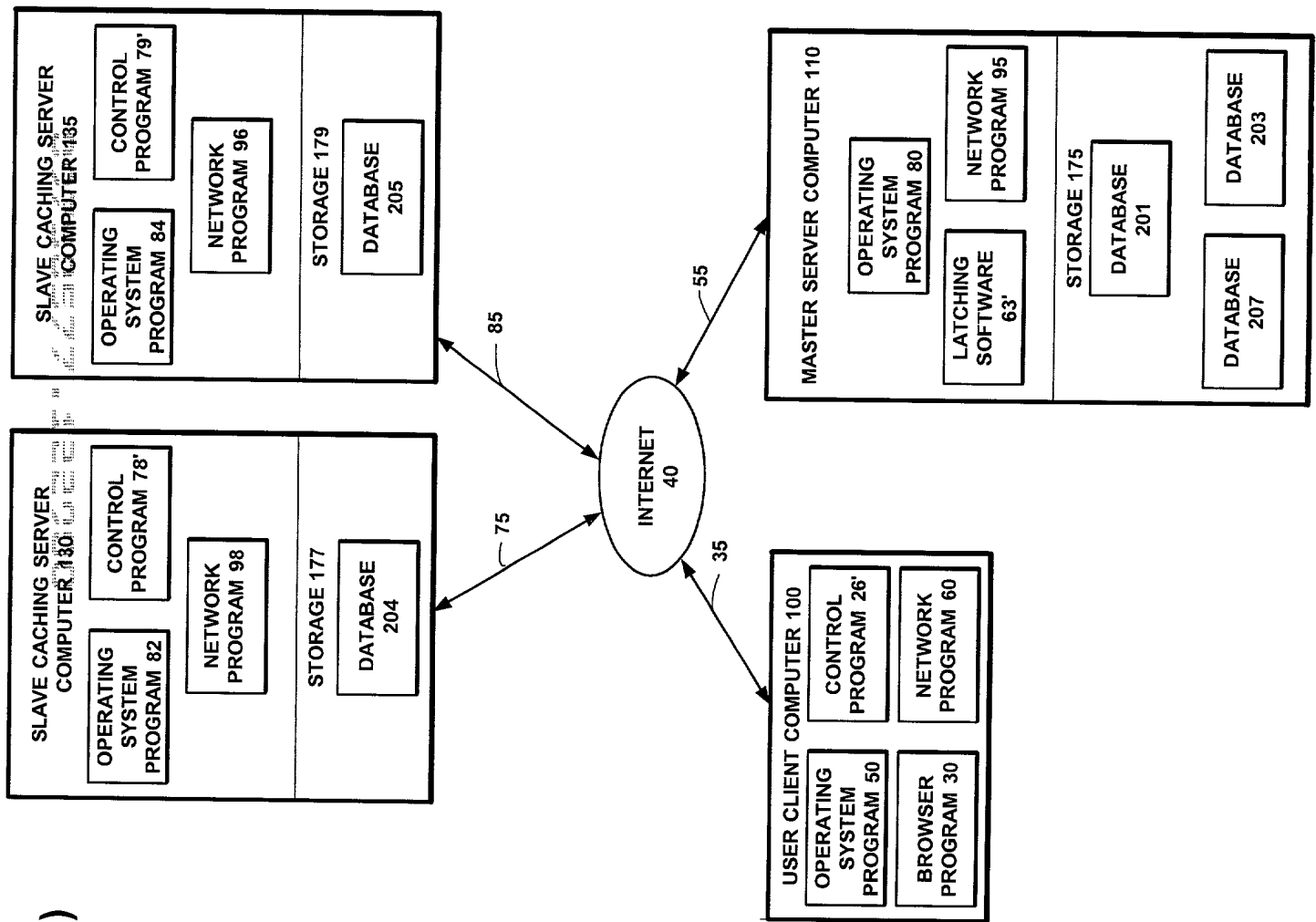


FIG. 2B(1)



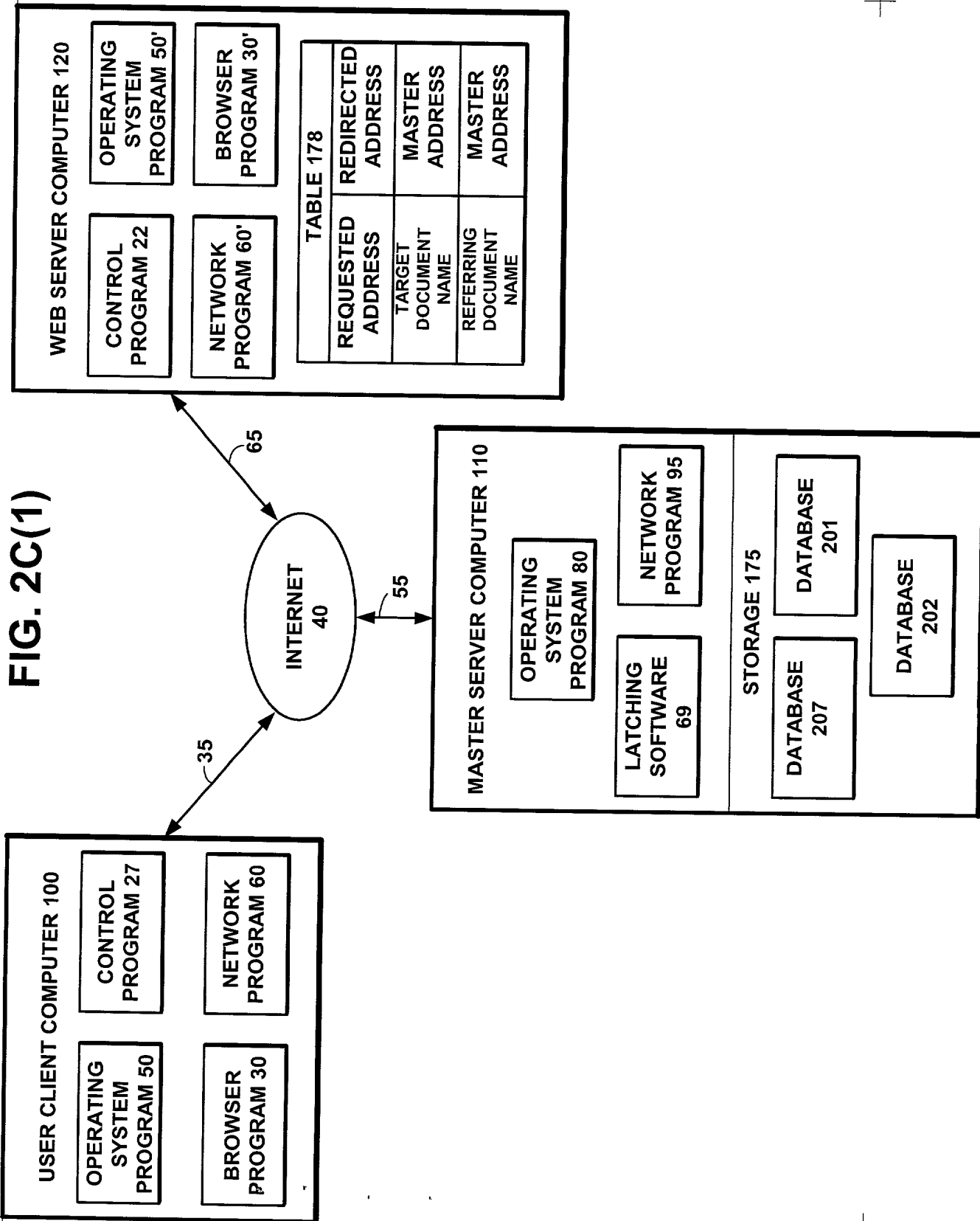
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FIG. 2B(2)



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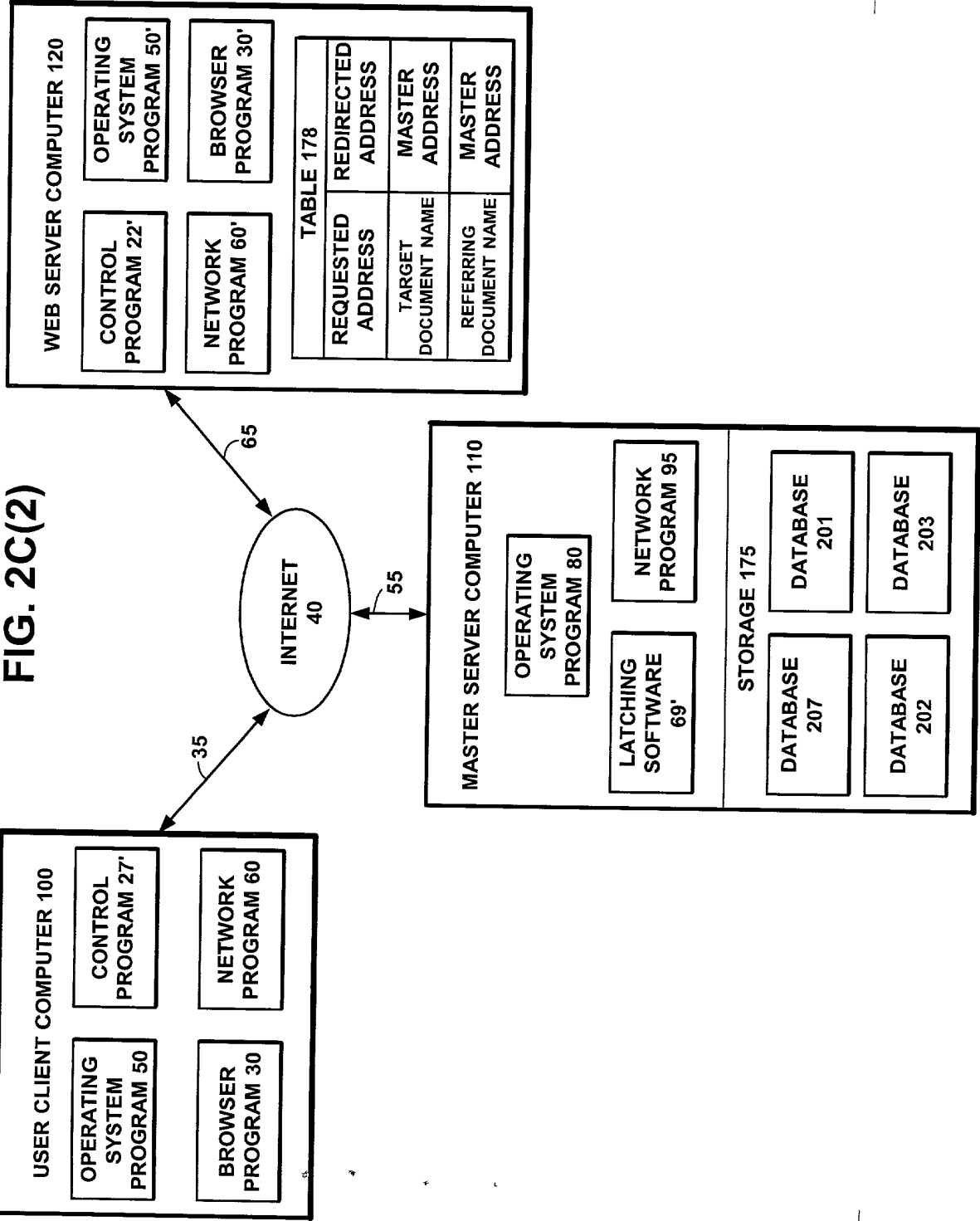


FIG. 2D(1)

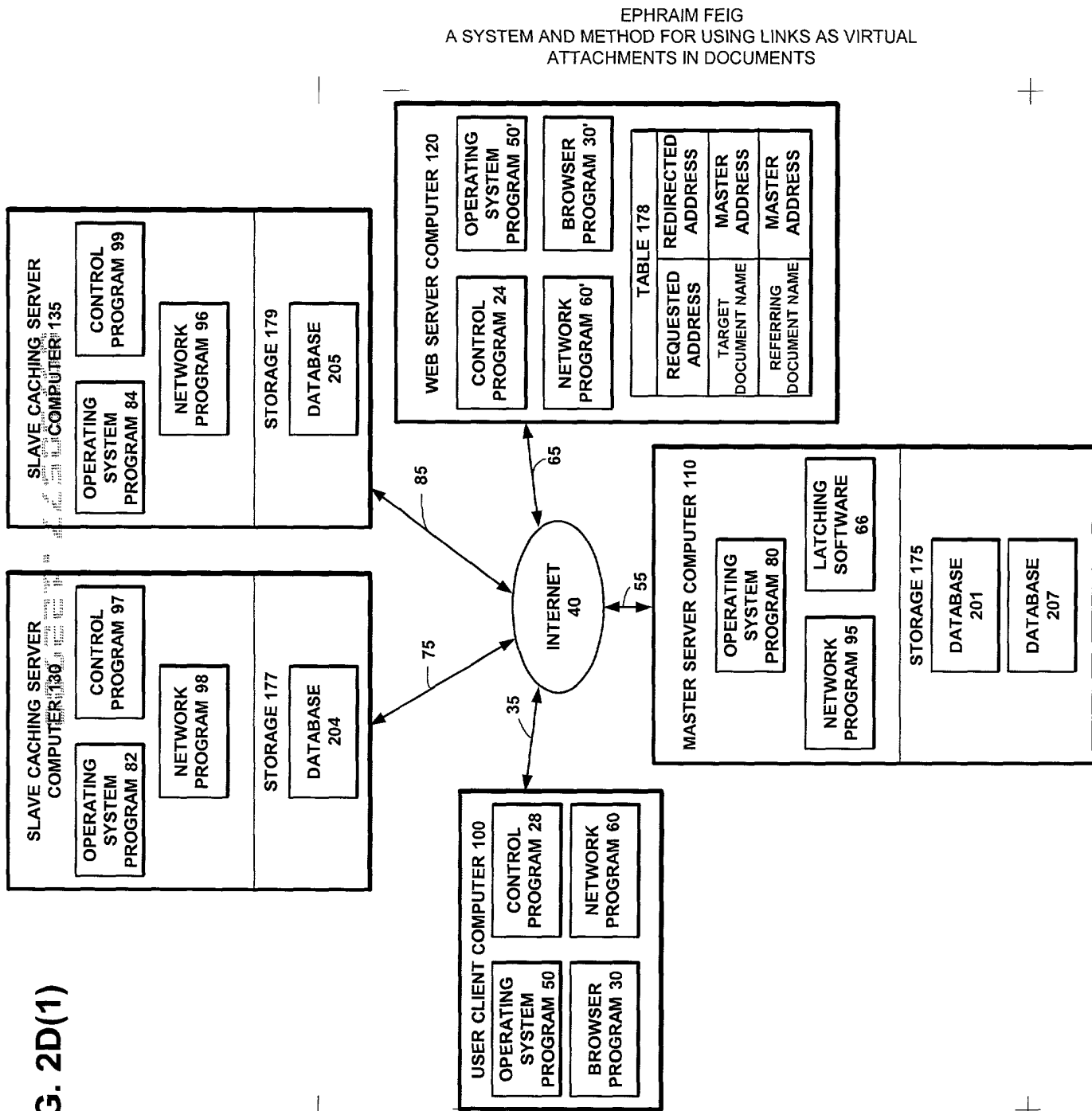
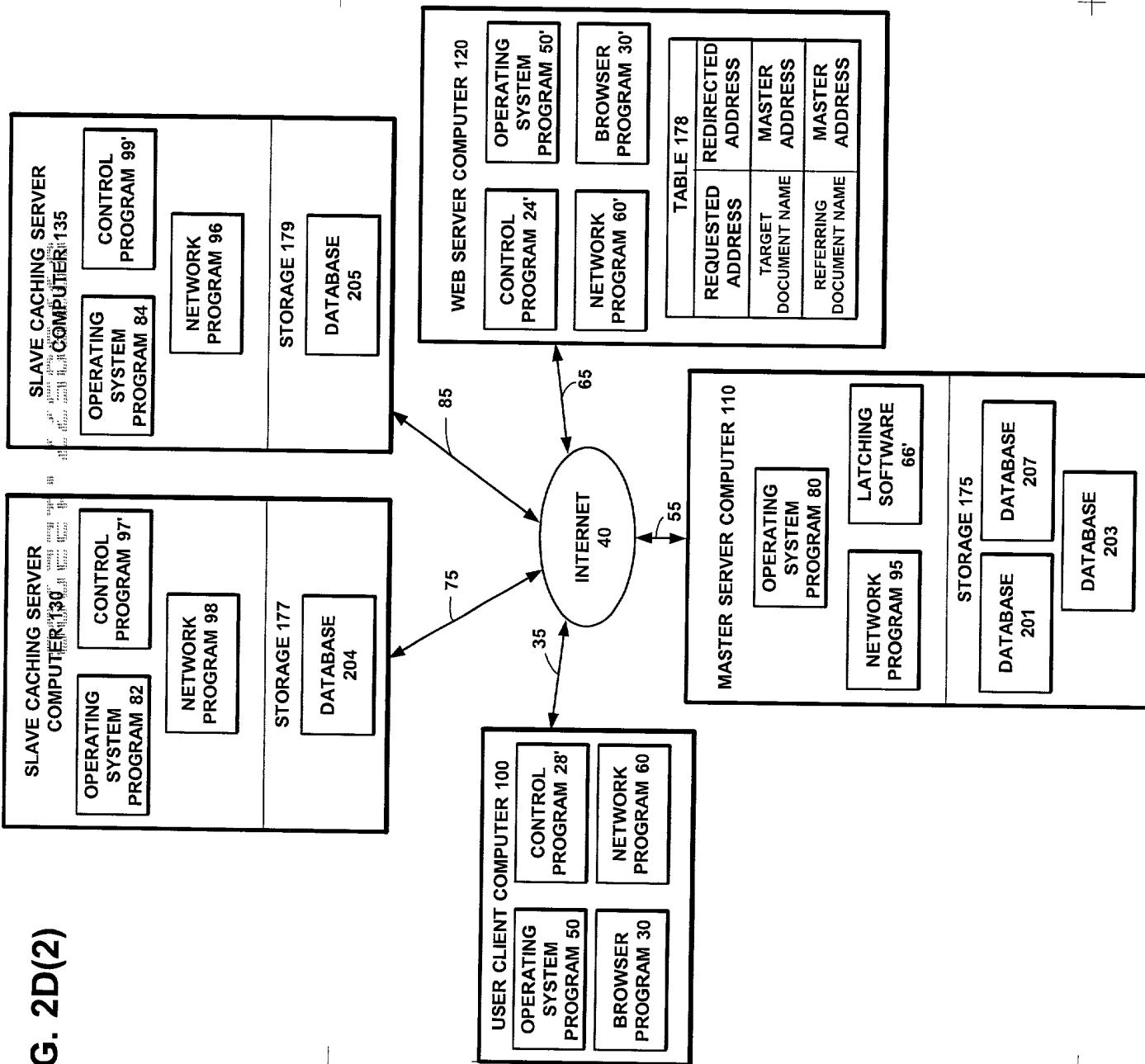


FIG. 2D(2)

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STORAGE 173

MASTER110/

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DB207/

OWNER'S DATA BASE 201

TARGET DOCUMENT DATA BASE 202

REFERRING DOCUMENT DATABASE 207

URL OF TARGET DOCUMENT IN MASTER SERVER COMPUTER (110) (ID OF TARGET DOCUMENT)	REFERRING DOCUMENTS STORED ON MASTER SERVER COMPUTER (110) (ID OF TARGET DOCUMENT IN MASTER SERVER)
www.cnn.com/master110/pics/LISA.jpg	www.cnn.com/master110/DB207/owner_letter.doc www.cnn.com/master110/DB207/partner_letter.doc www.cnn.com/master110/DB207/friend_fr.doc www.cnn.com/master110/DB207/business_promo.doc
www.cnn.com/master110/pictures/WASH.jpg	www.cnn.com/master110/DB207/owner_letter.doc www.cnn.com/master110/DB207/partner_letter.doc www.cnn.com/master110/DB207/friend_fr.doc www.cnn.com/master110/DB207/business_promo.doc

USE TABLE 1	USE TABLE 2
LISA.jpg COUNT = 4	WASH.jpg COUNT = 4
KIM.jpg COUNT = 0	PARIS.jpg COUNT = 0
KAREN.jpg COUNT = 0	LONDON.jpg COUNT = 0
TRAVEL.jpg COUNT = 0	ROME.jpg COUNT = 0

Target address of linked document (target document)	Target address of linked document (target document)
www.cnn.com/master110/pics/LISA.jpg	www.cnn.com/master110/pictures/master110/pictures/WASH.jpg
client_letter.doc (15A)	business_report.doc (9A)
Target Document 2	Target Document 2
partner_letter.doc (5B)	business_promo.doc (8B)
Target Document 2	Target Document 2

FIG. 3A(1)

FIG. 3A(2)

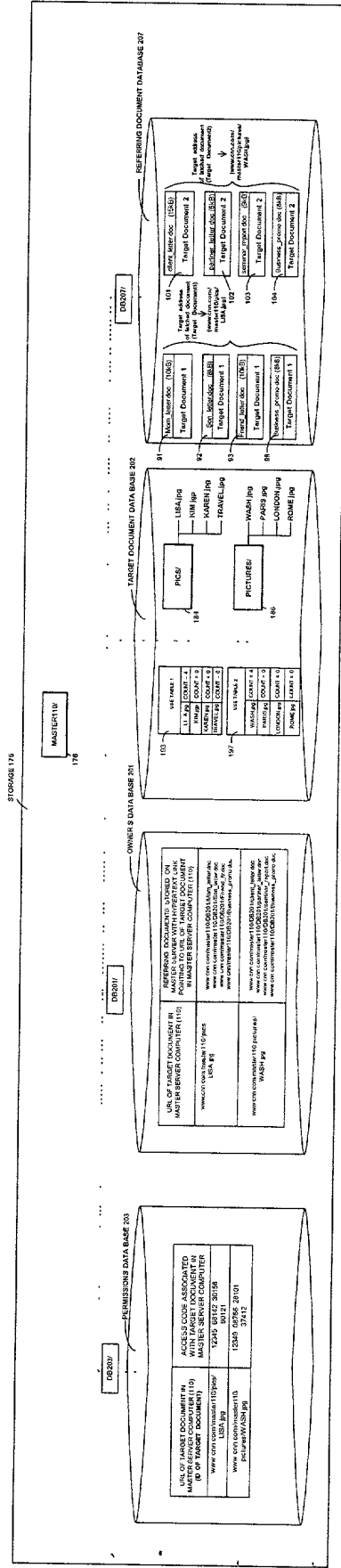


FIG. 3A(2)

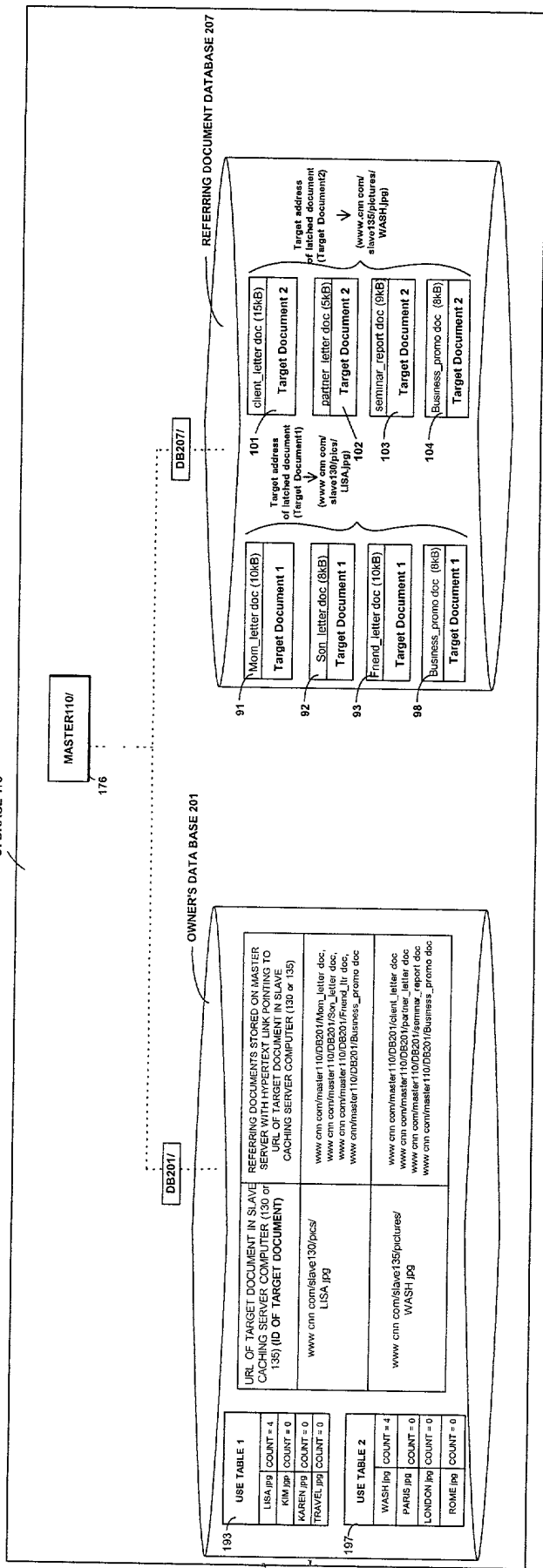


FIG. 3B(1)

FIG. 3B(2)

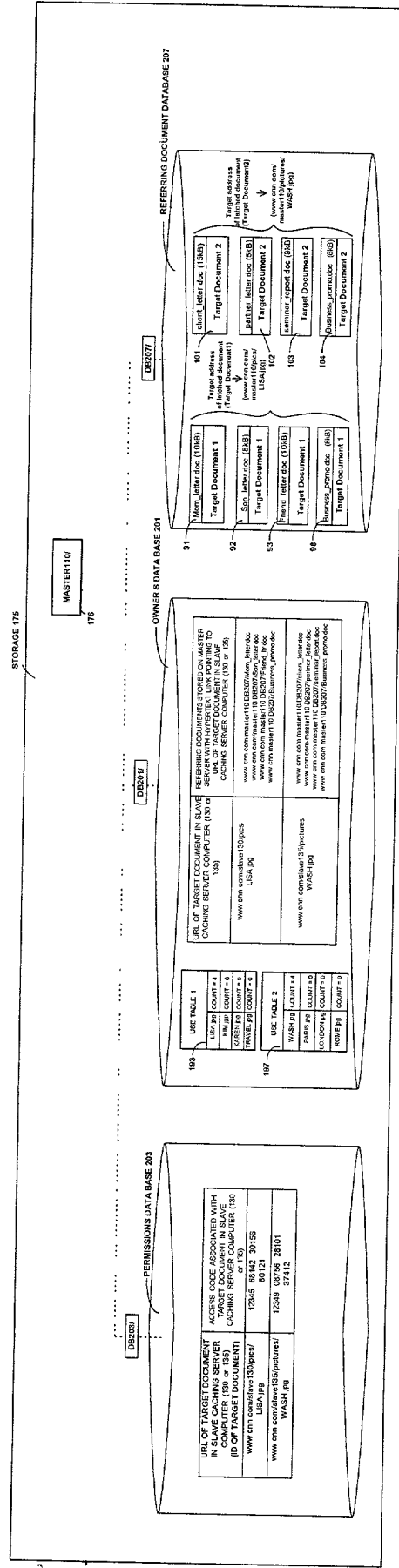


FIG. 3B(2)

FIG. 3C(1)

STORAGE 175

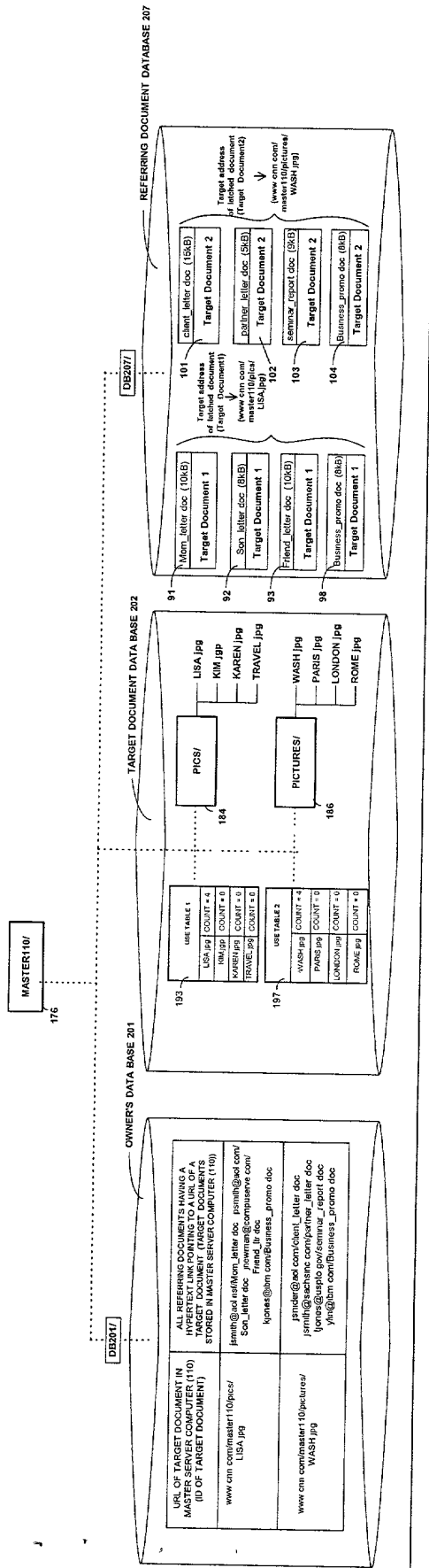
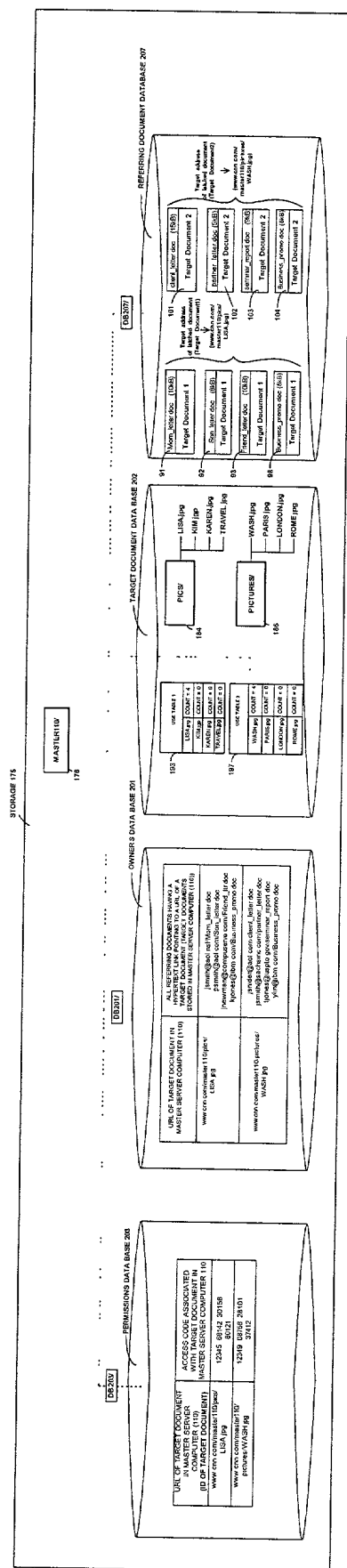


FIG. 3C(1)



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OWNER'S DATA BASE 201

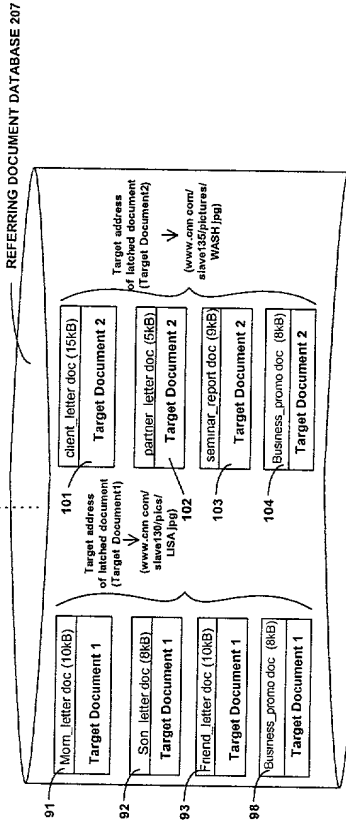
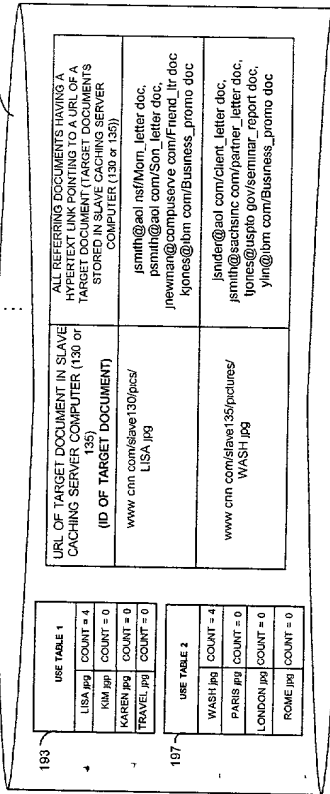


FIG. 3C(3)

FIG. 3C(4)

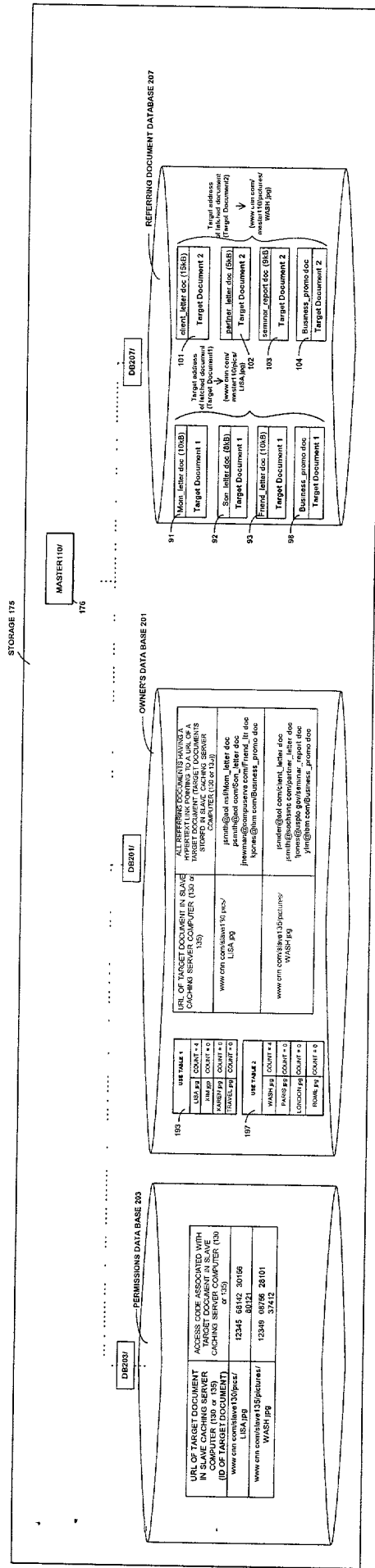


FIG. 3C(4)

FIG. 4

STORAGE 177

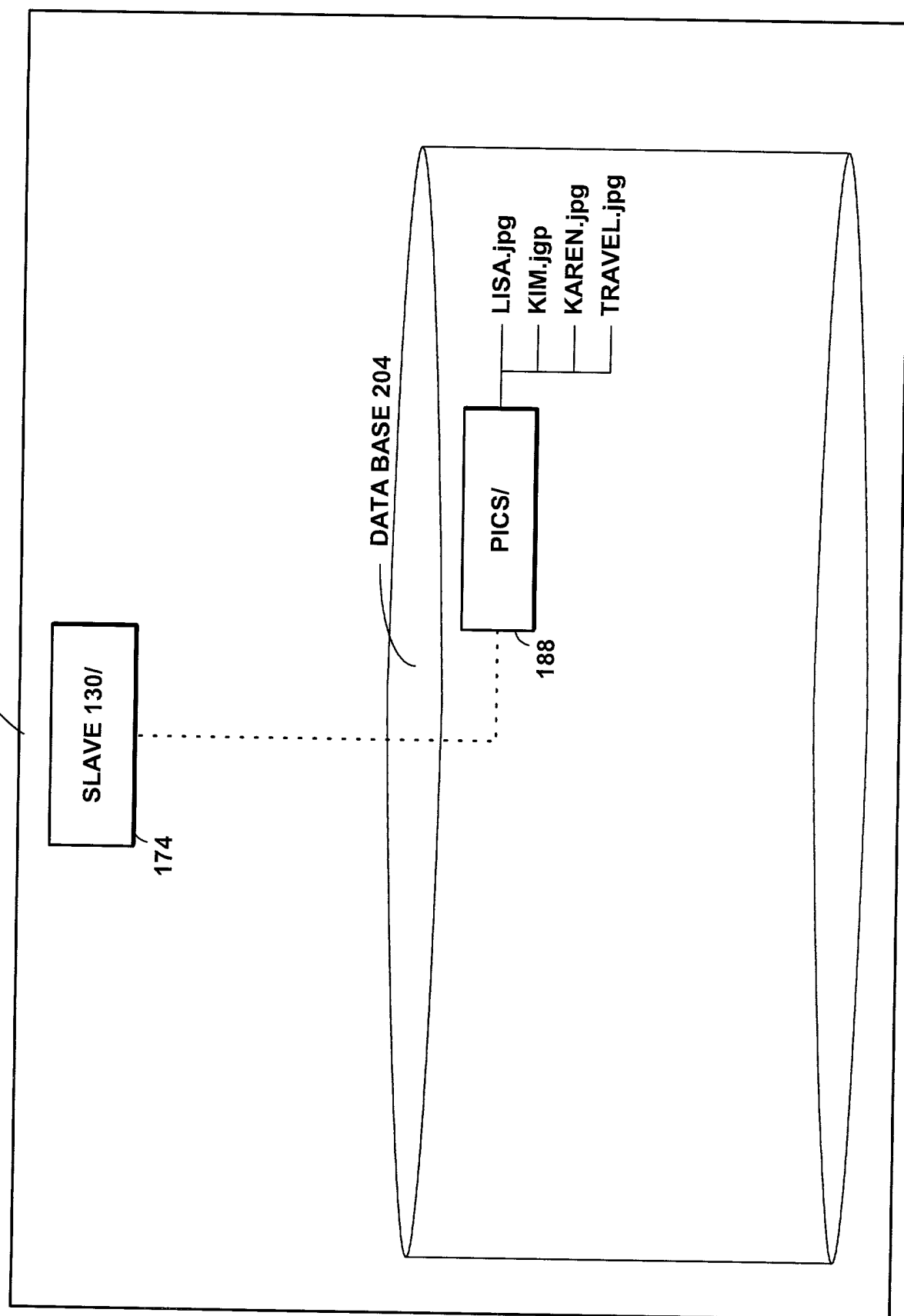


FIG. 5

STORAGE 179

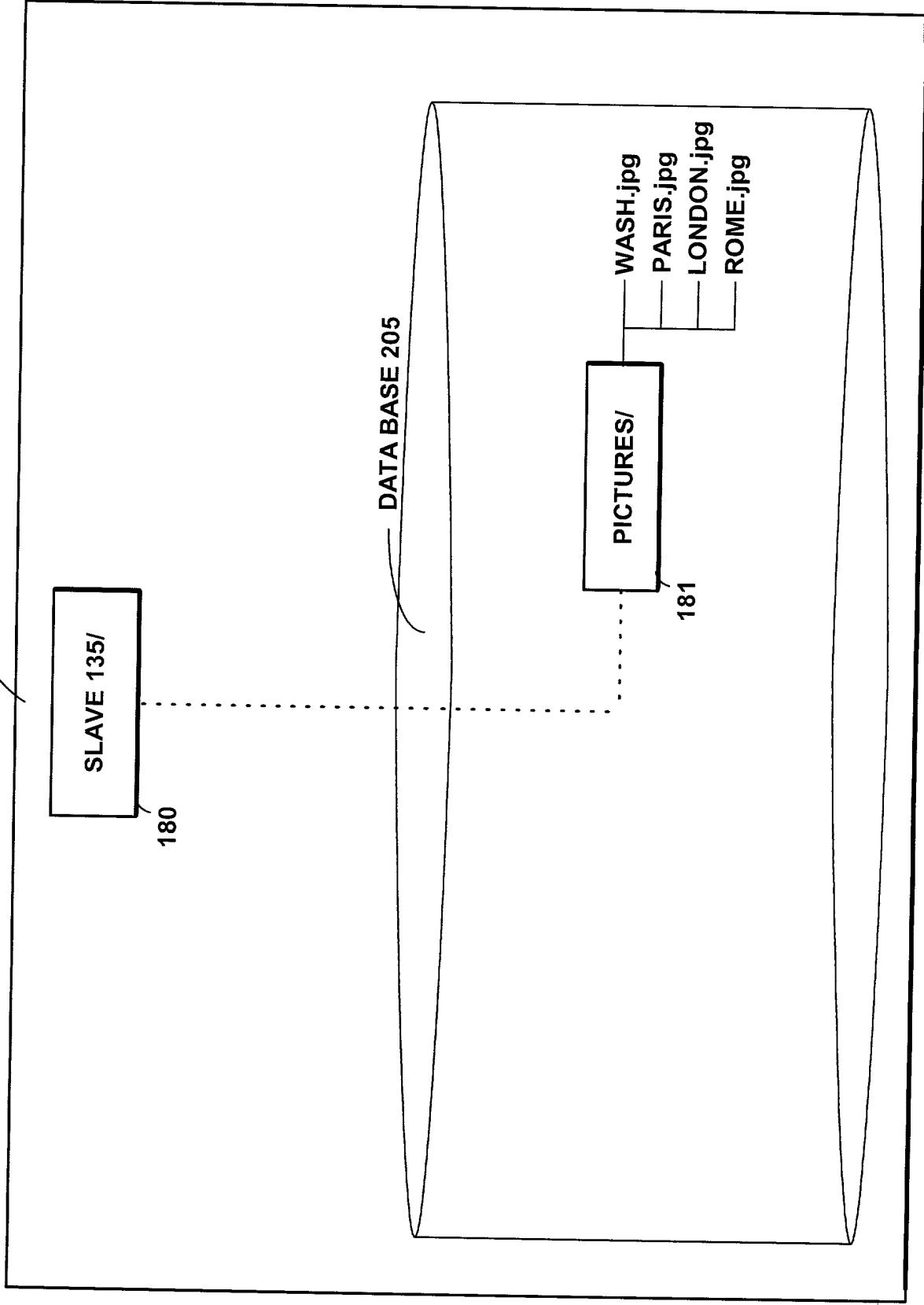


FIG. 6A(1)

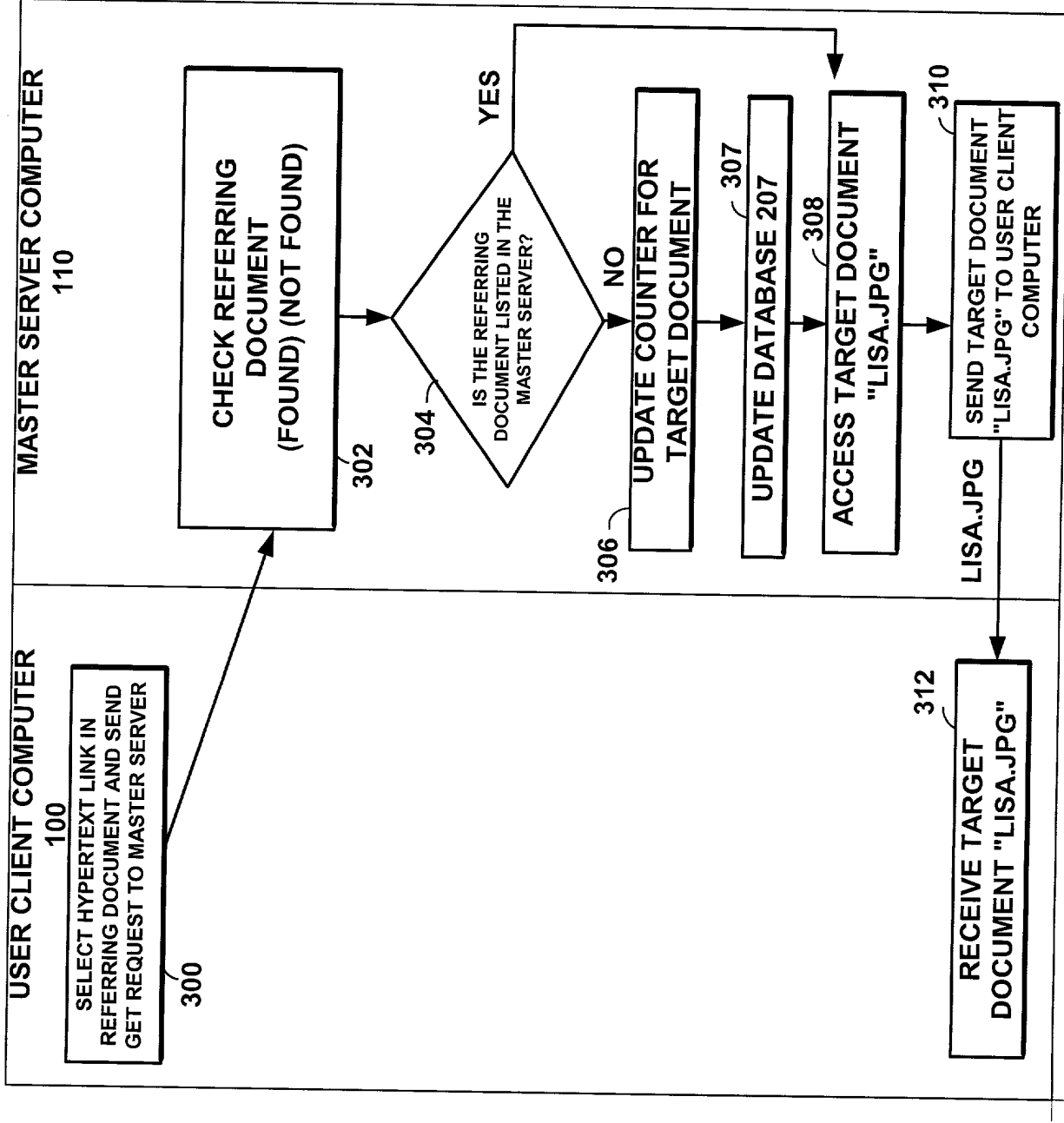
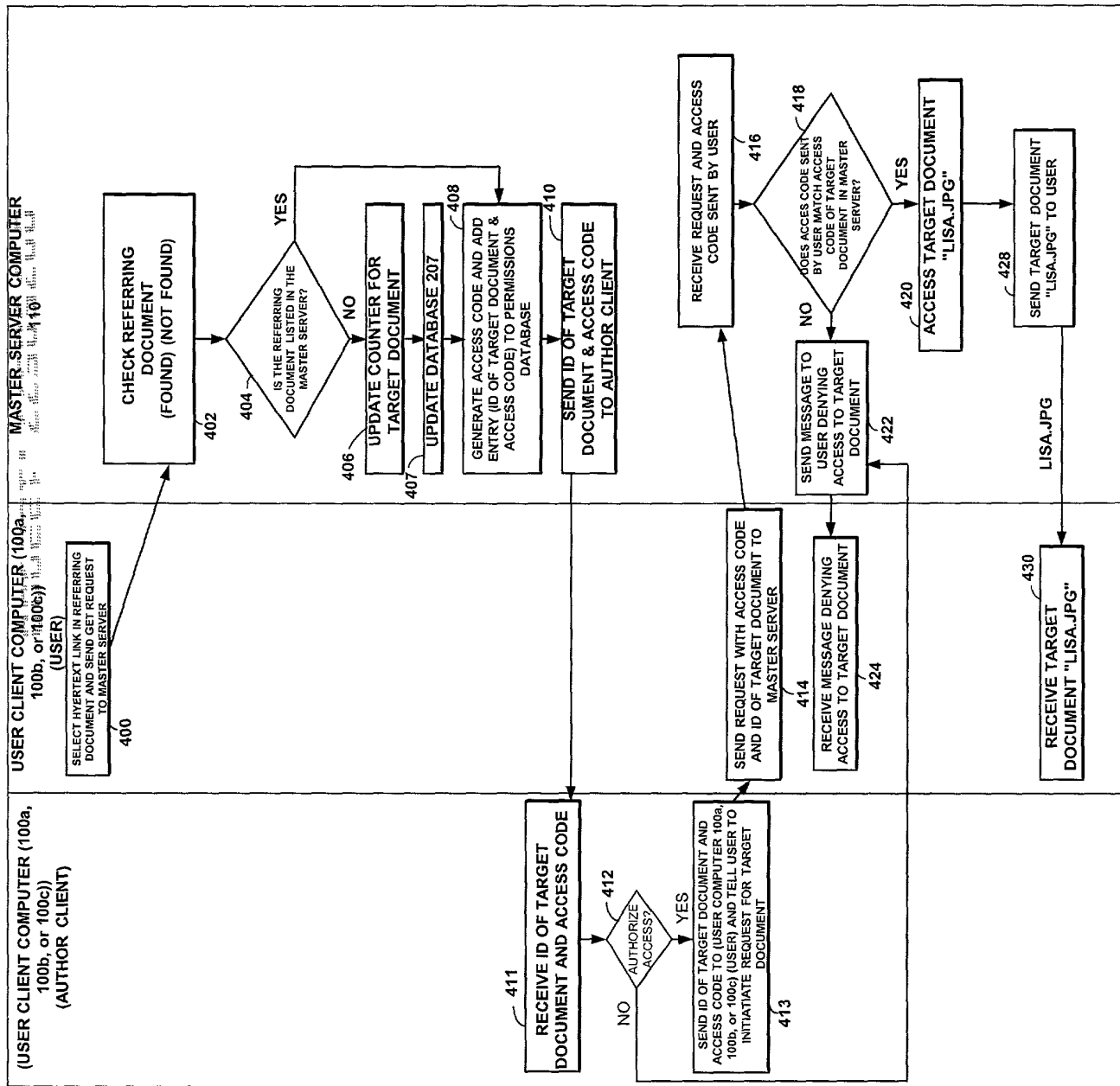


FIG. 6A(2)



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FIG. 6B(1)

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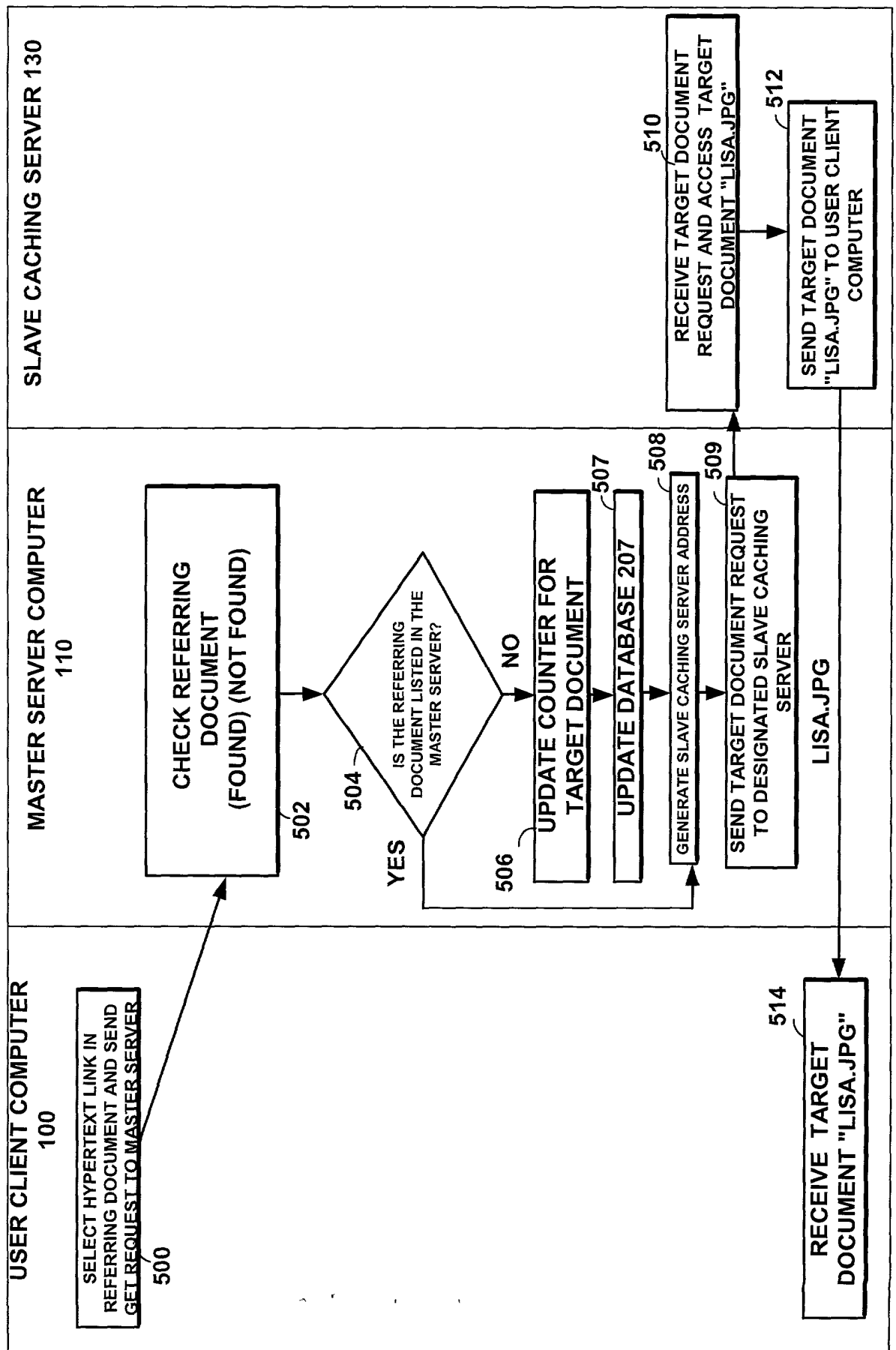


FIG. 6B(2)

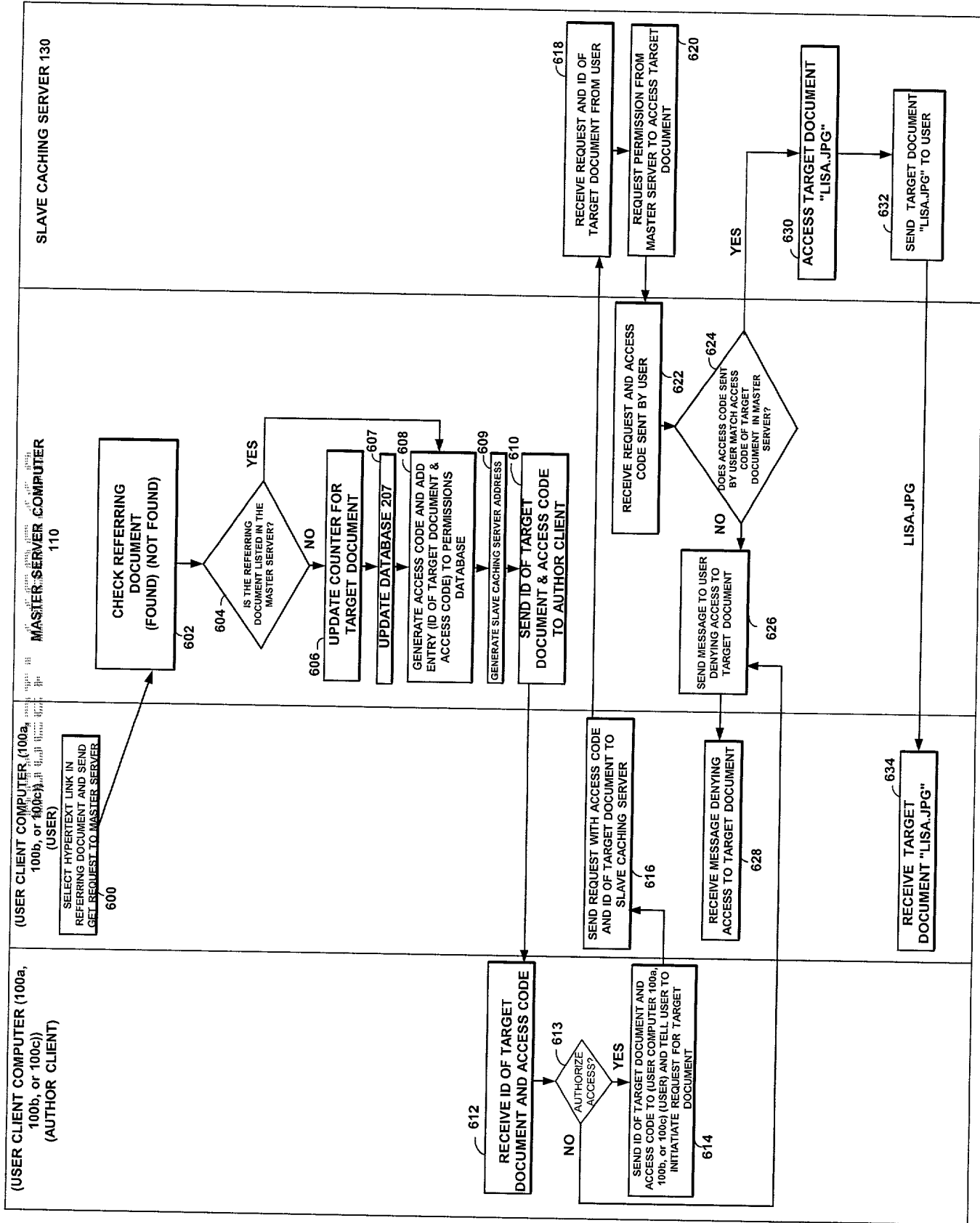


FIG. 6C(1)

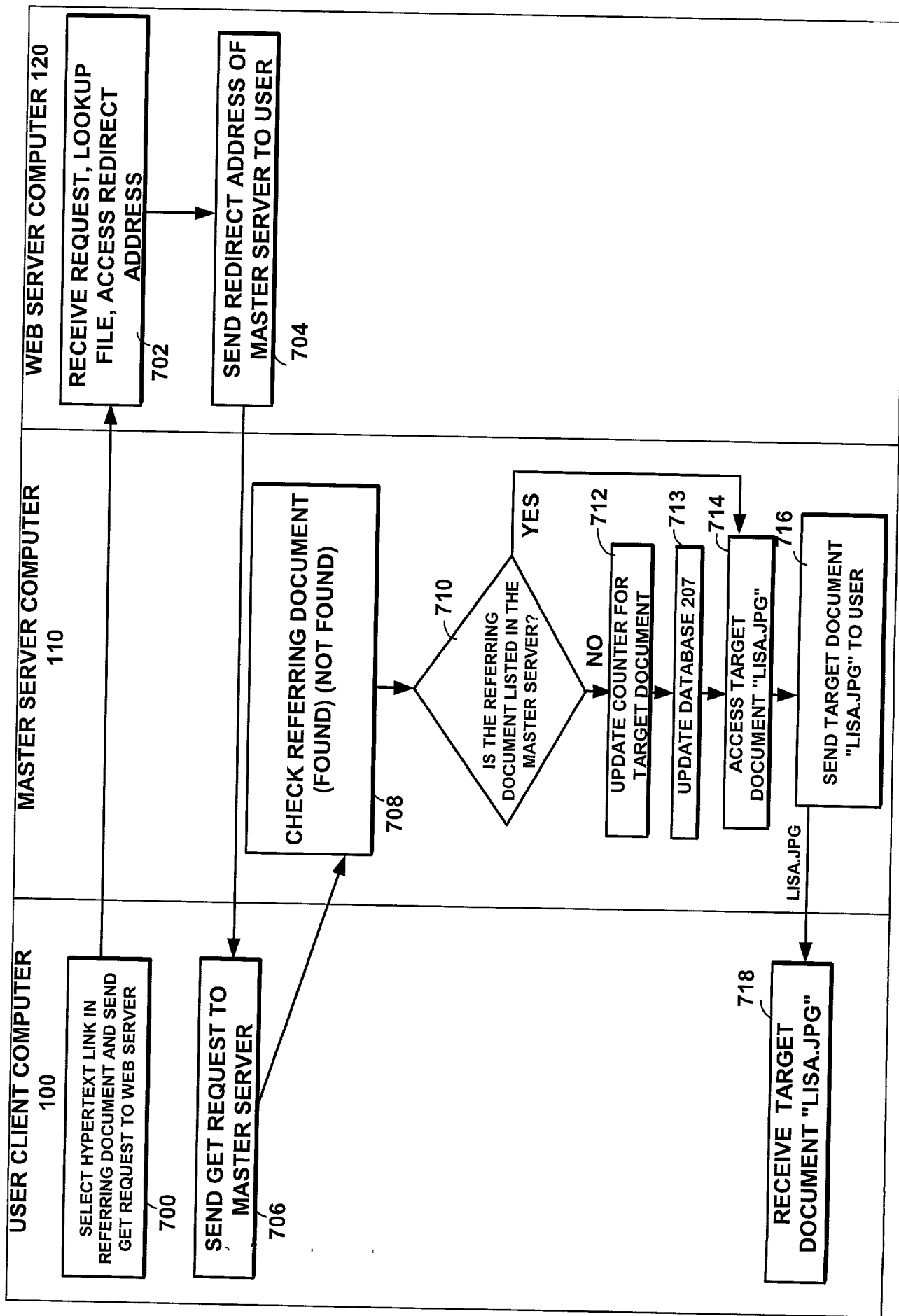


FIG. 6C(2)

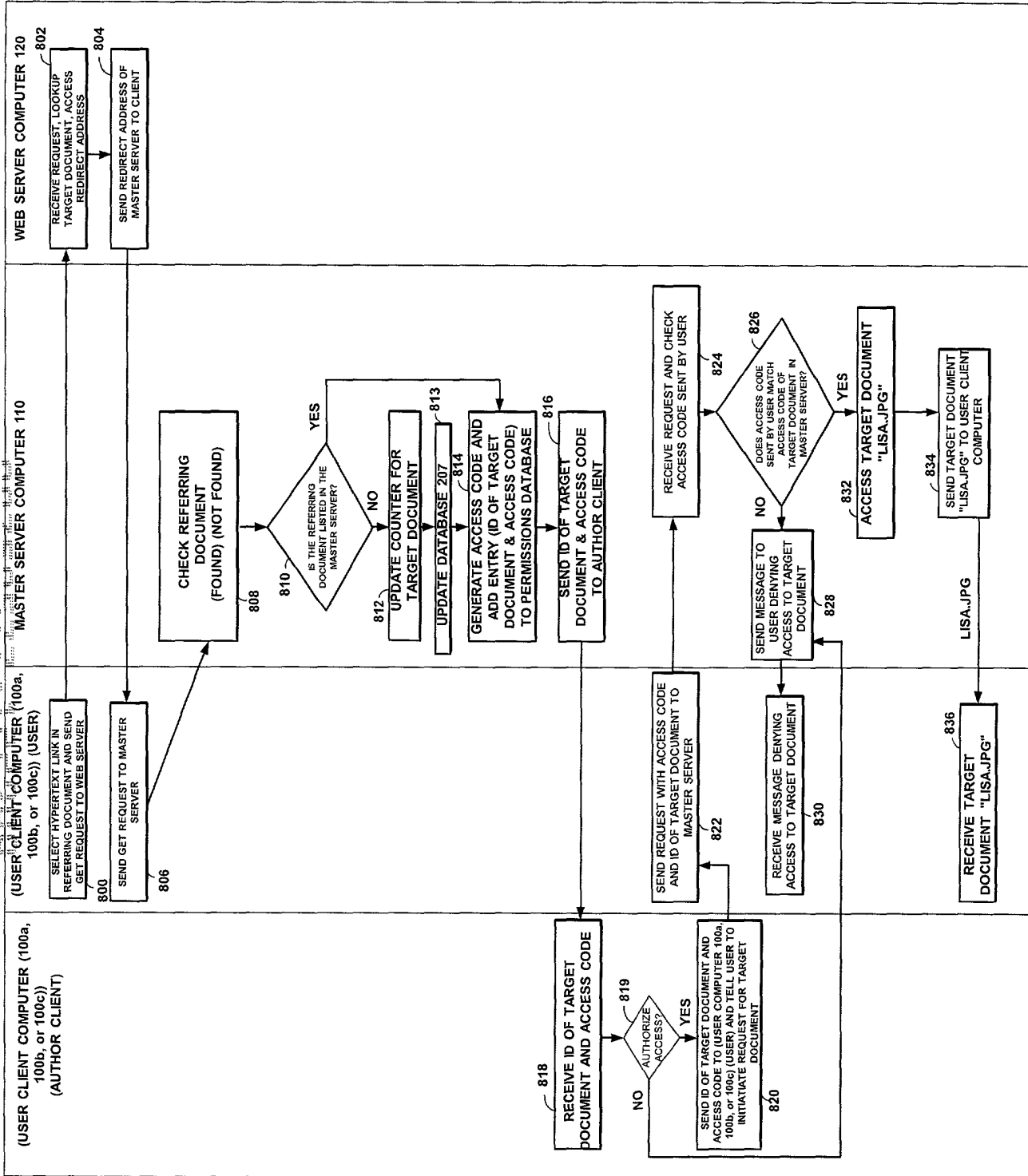


FIG. 6D(1)

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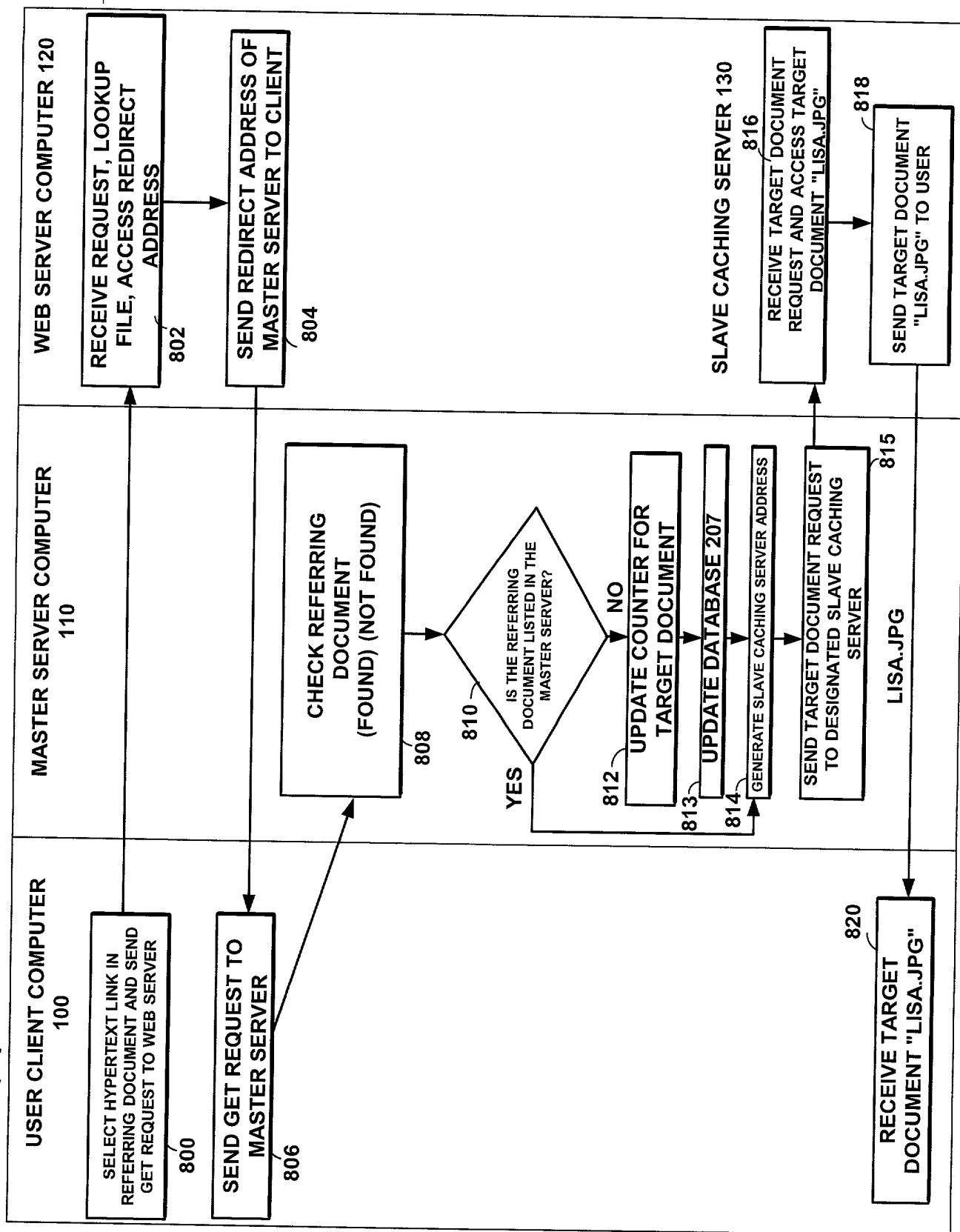
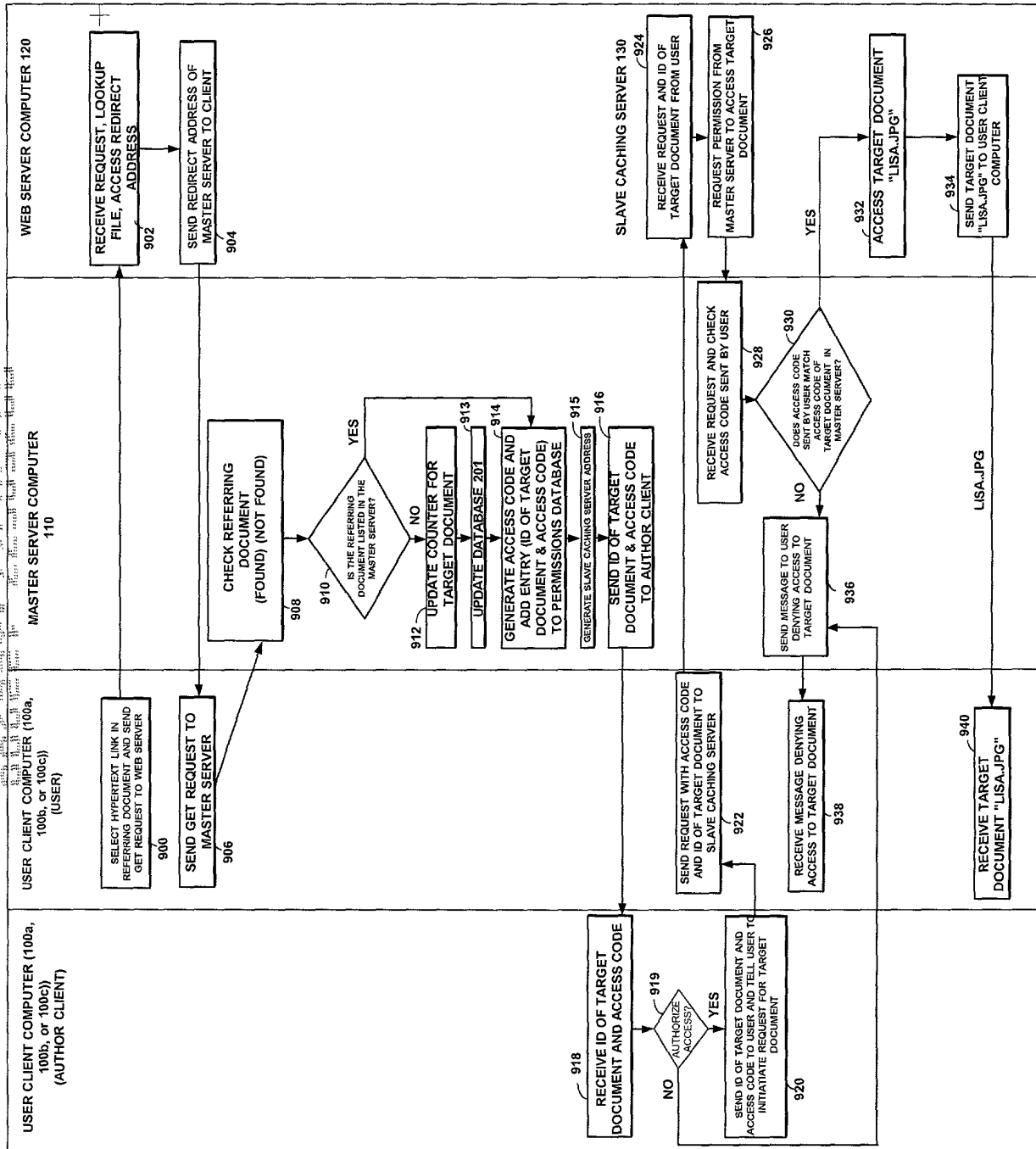
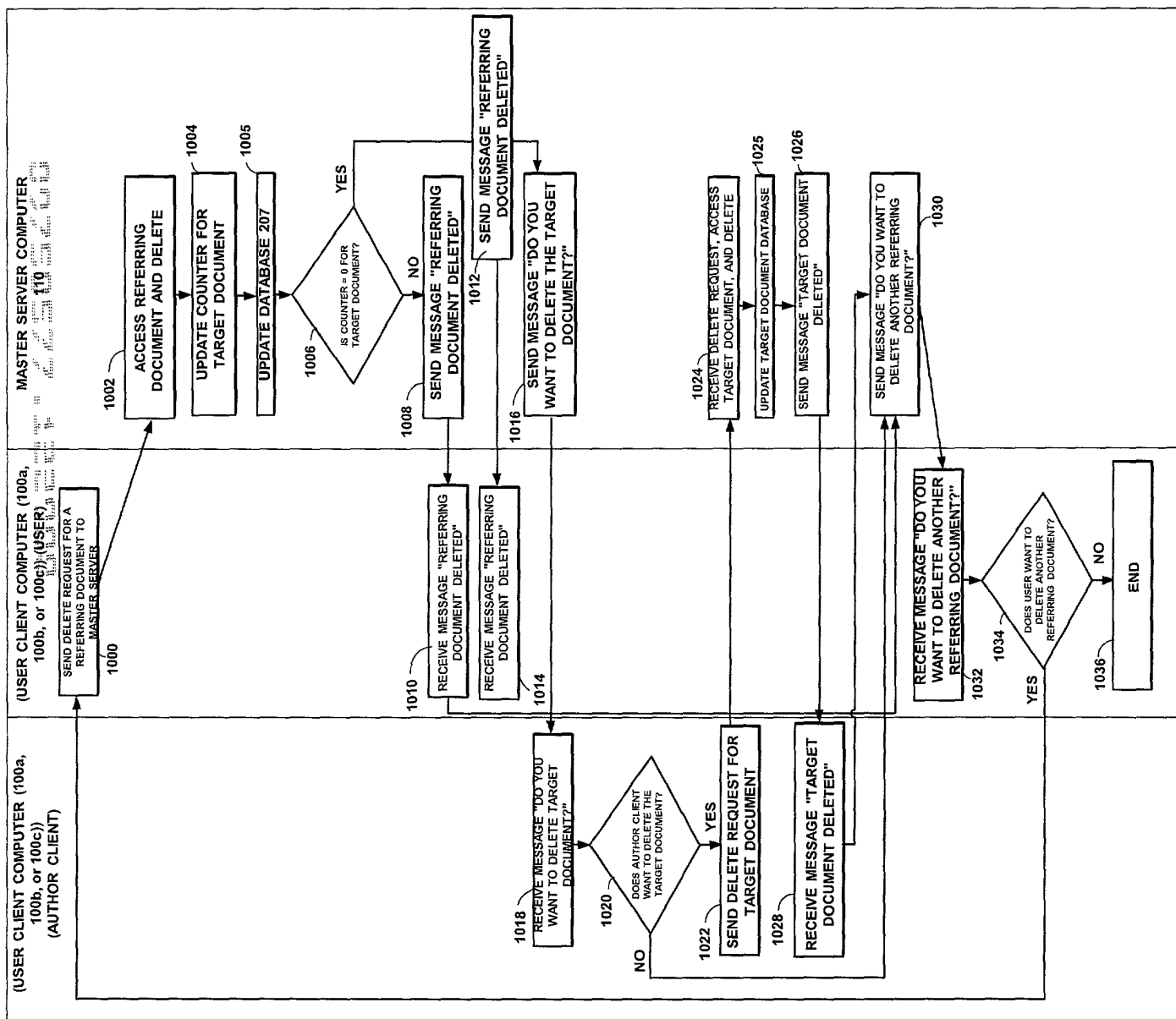


FIG. 6D(2)



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ATTACHMENTS IN DOCUMENTS

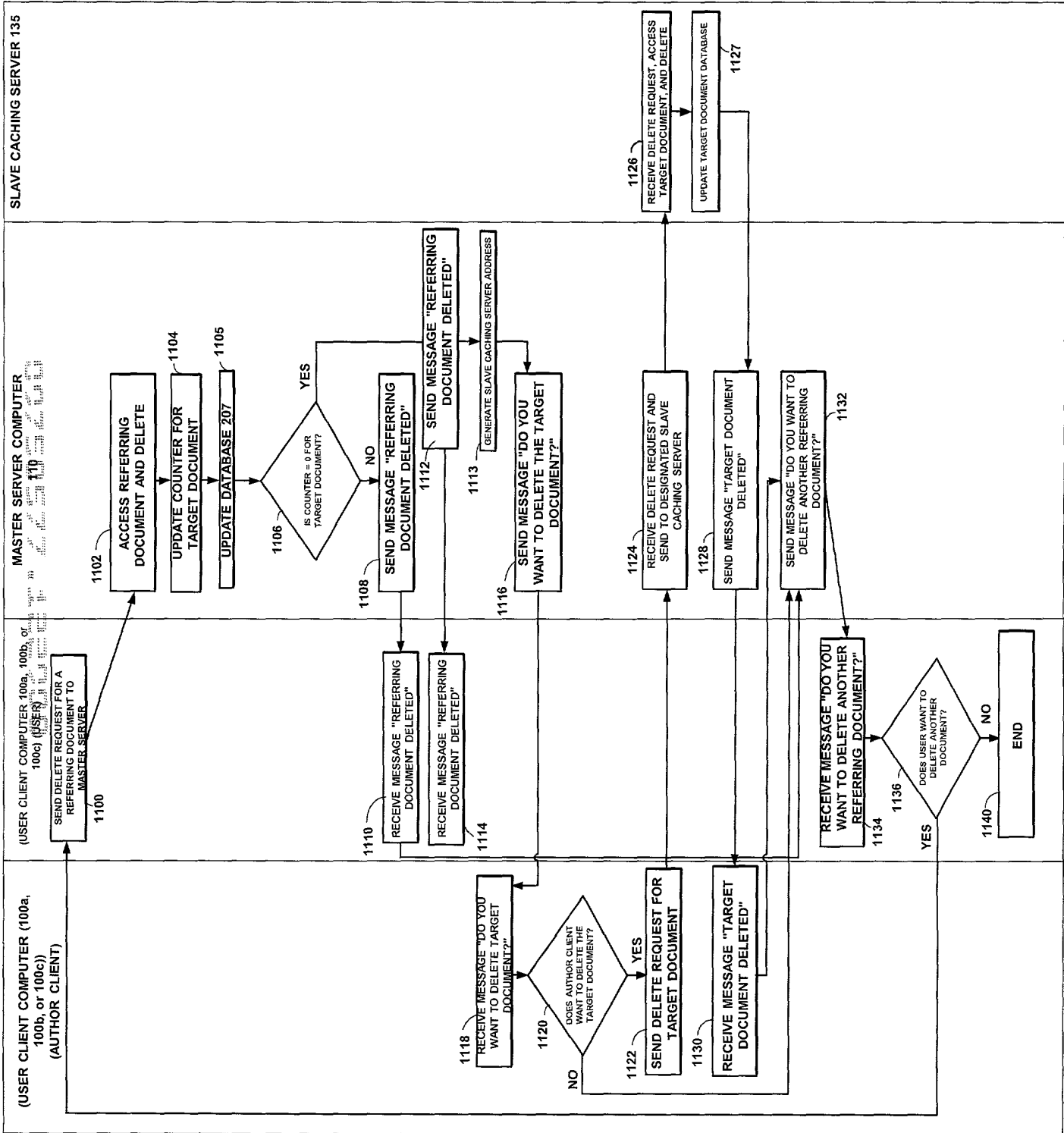


FIG. 7C(1)

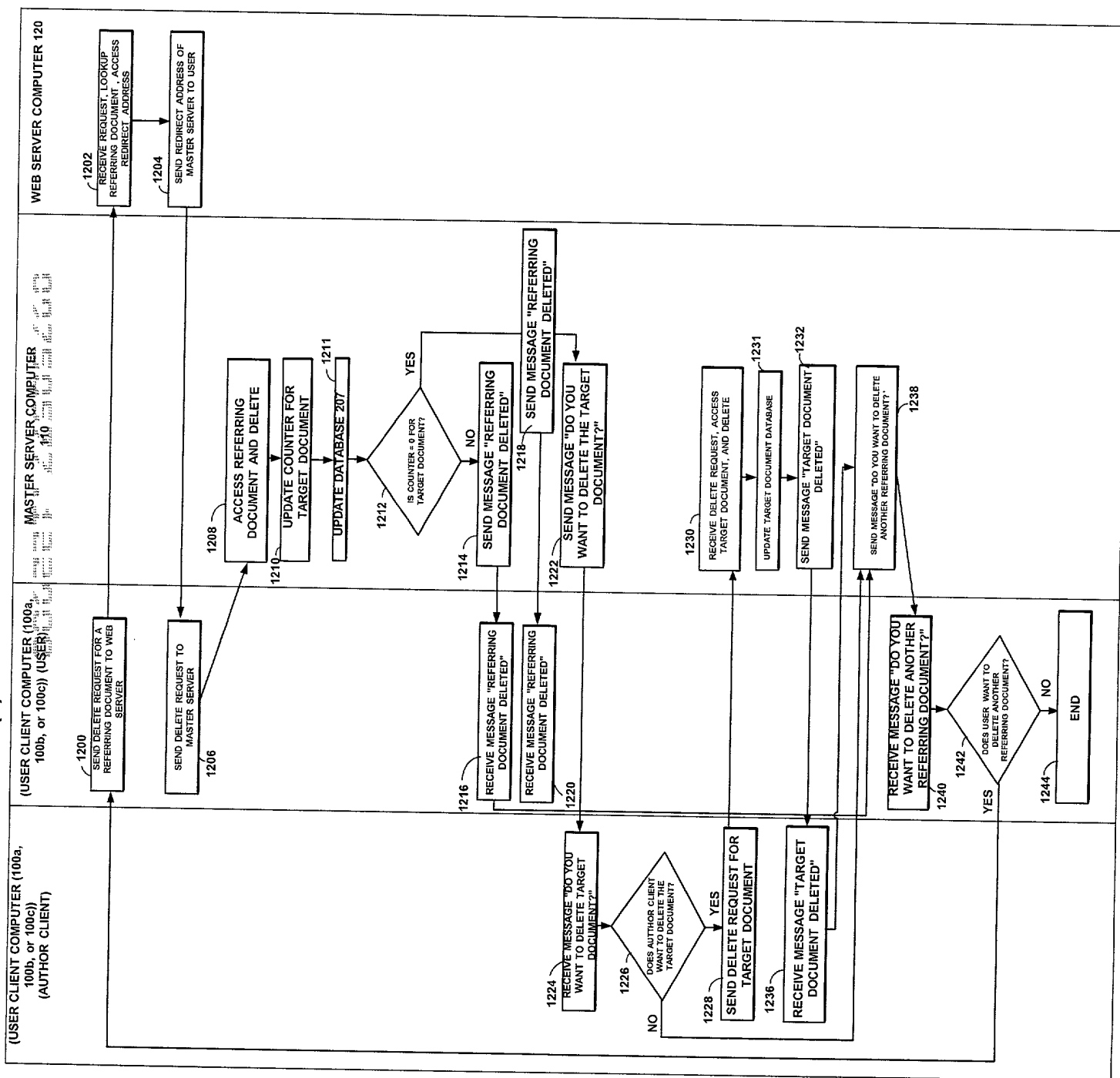


FIG. 7D(1)

EPHRAIM FEIG
A SYSTEM AND METHOD FOR USING LINKS AS VIRTUAL
ATTACHMENTS IN DOCUMENTS

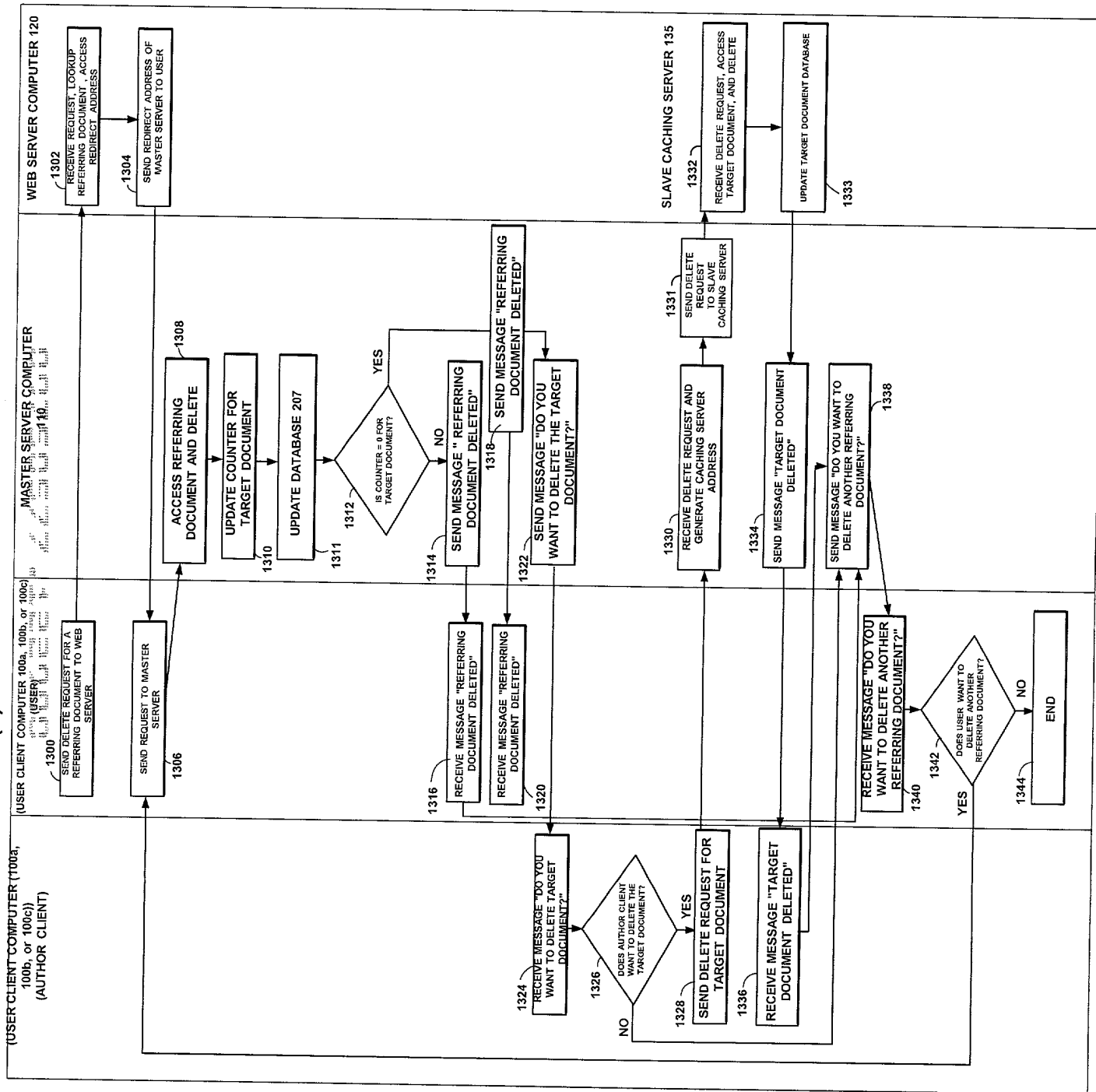


FIG. 8A(1)

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ATTACHMENTS IN DOCUMENTS

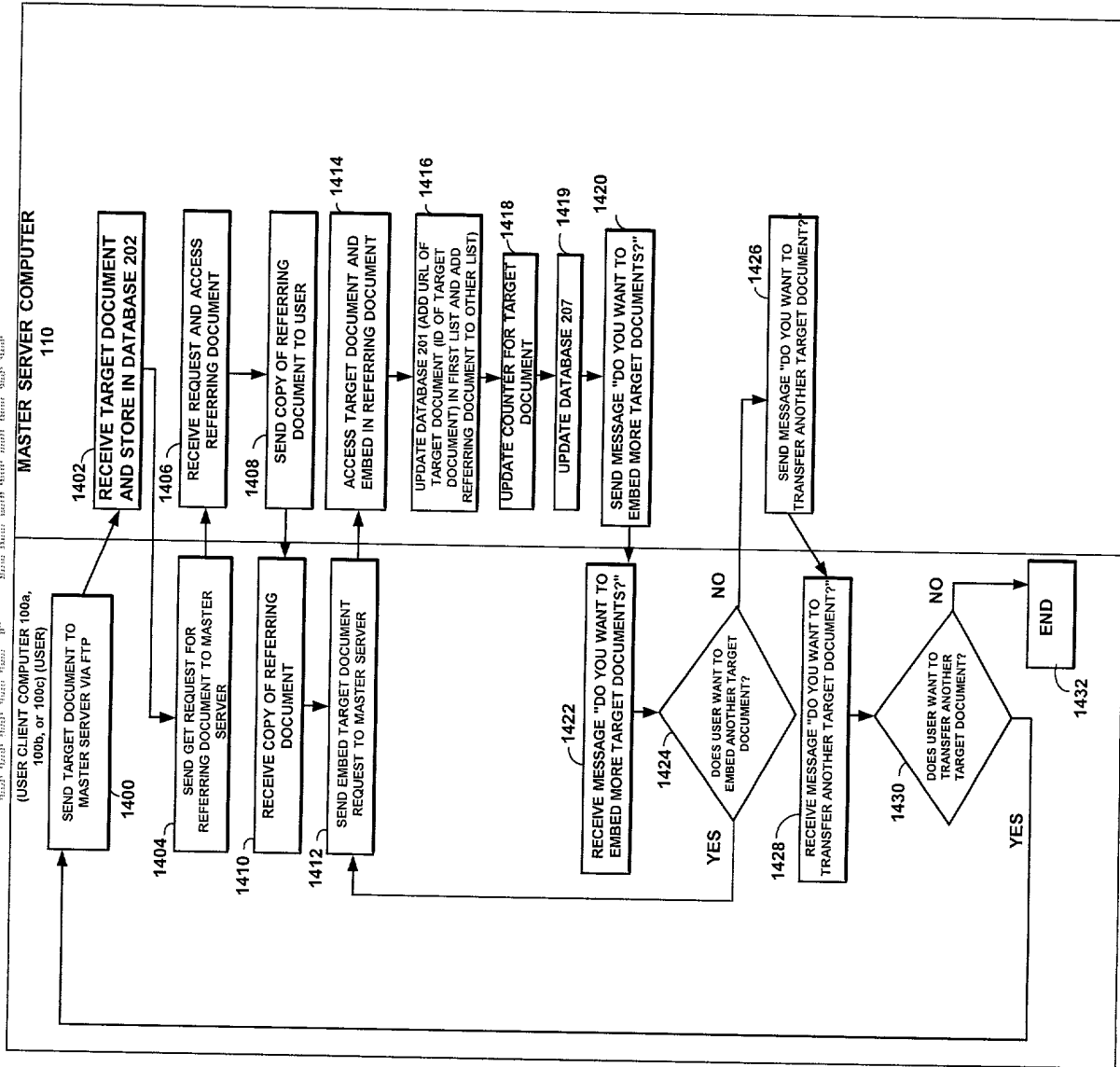
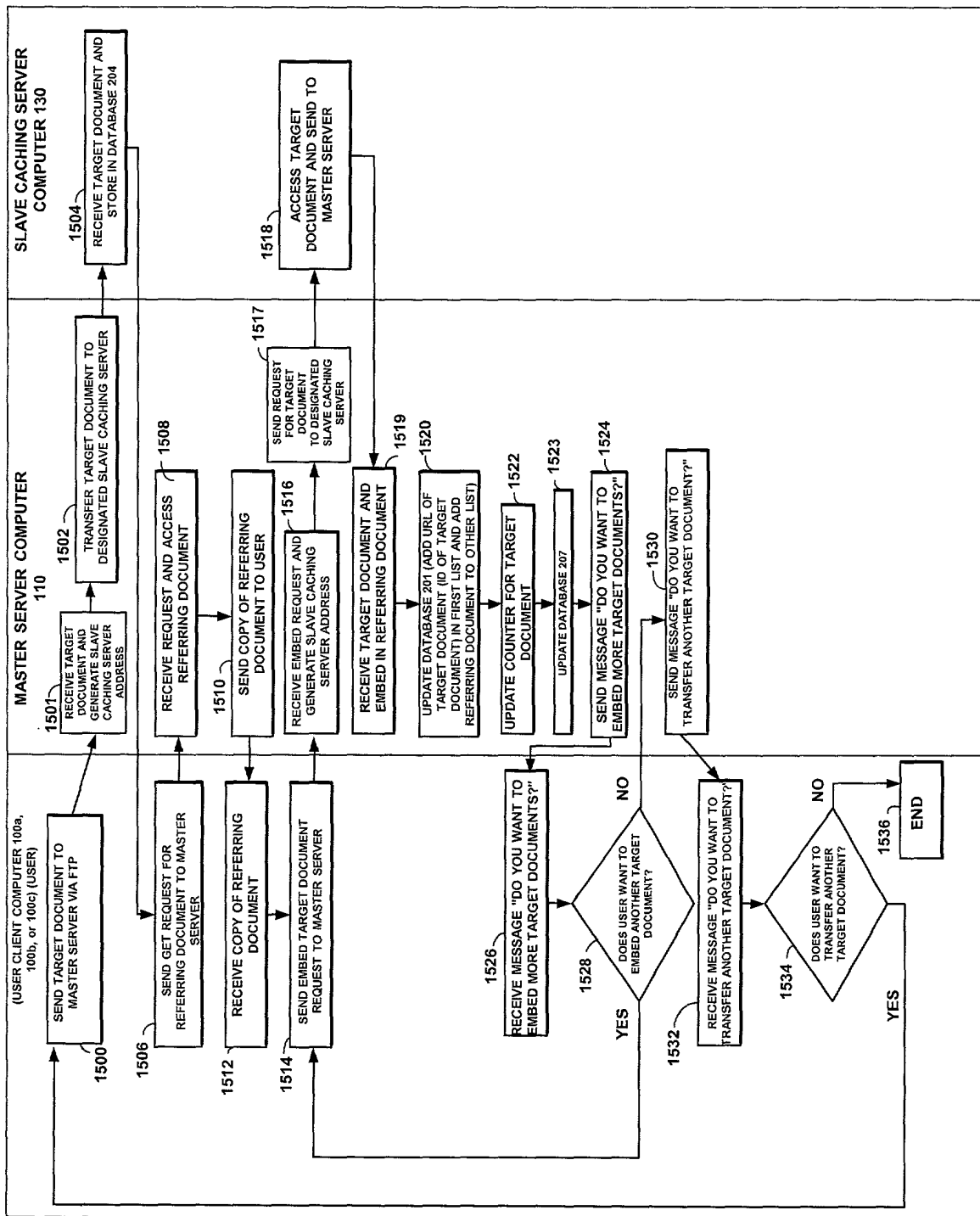
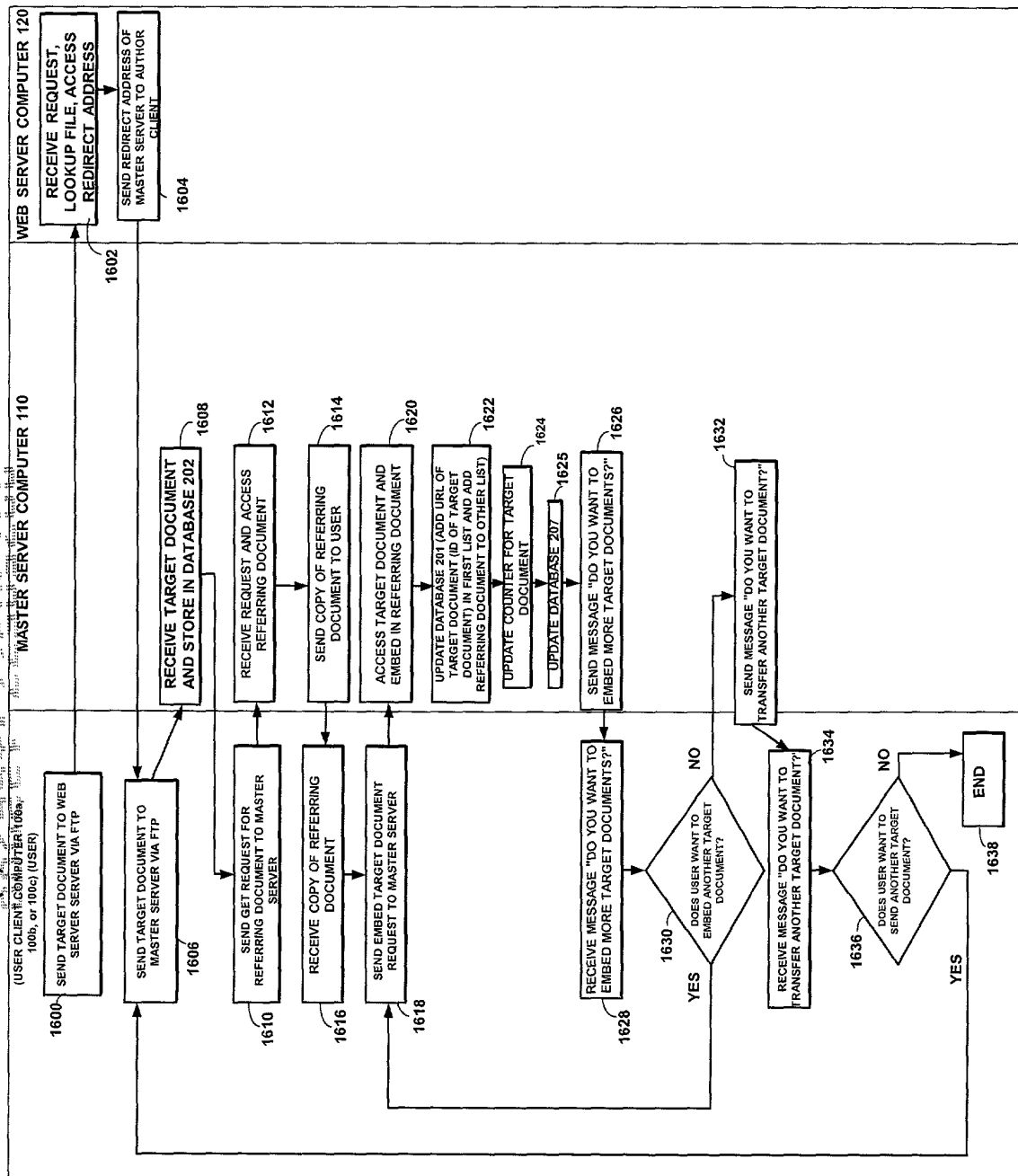


FIG. 8B(1)



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FIG. 8C(1)



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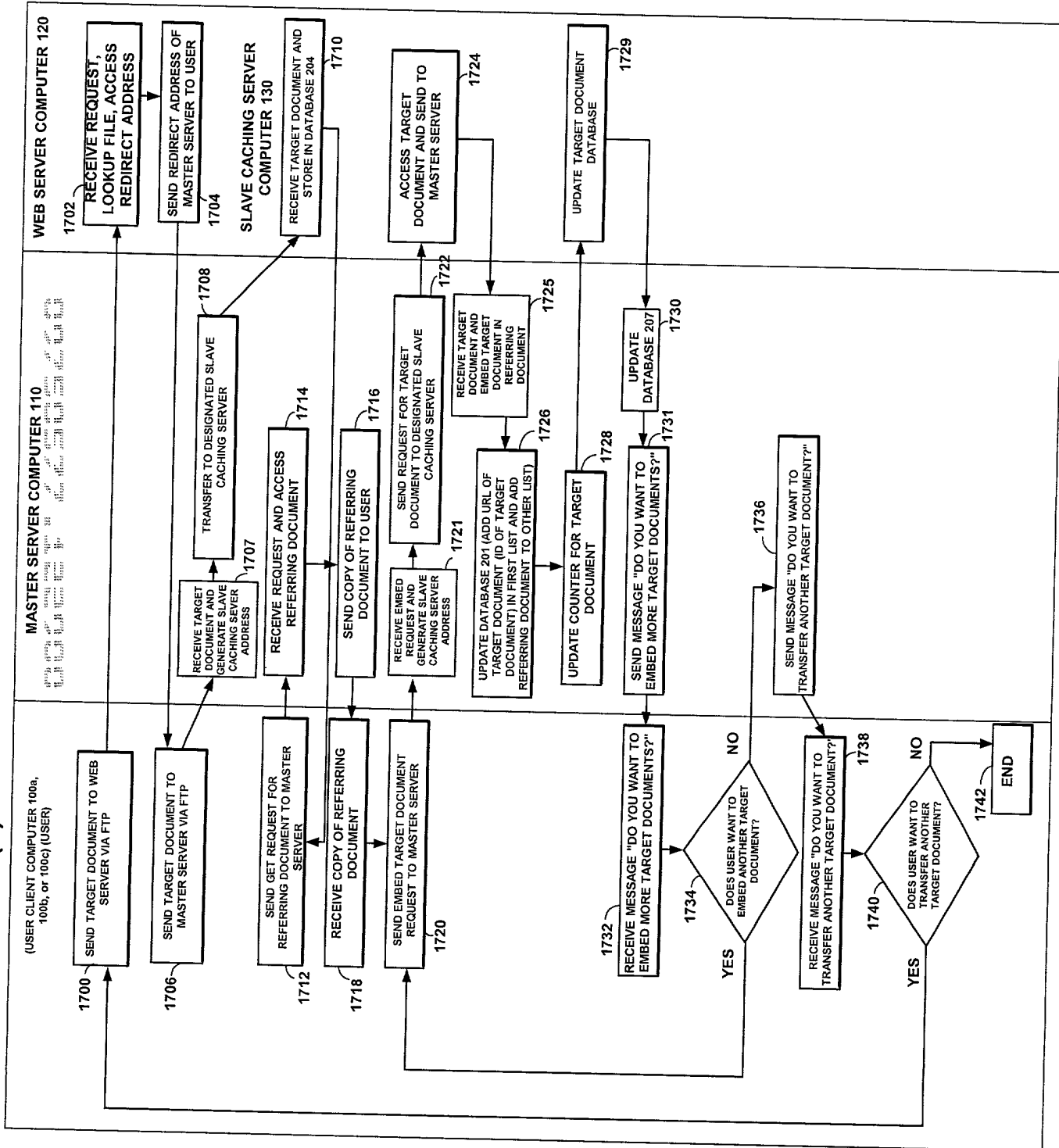
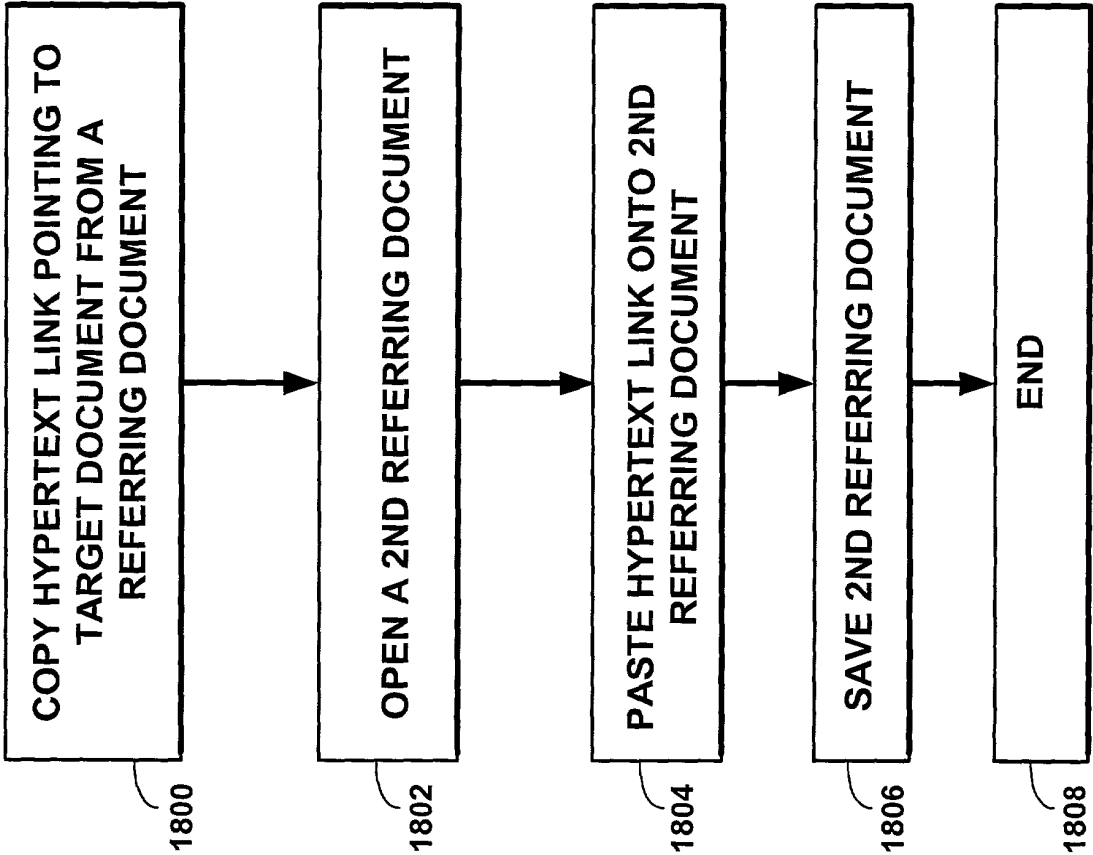


FIG. 9



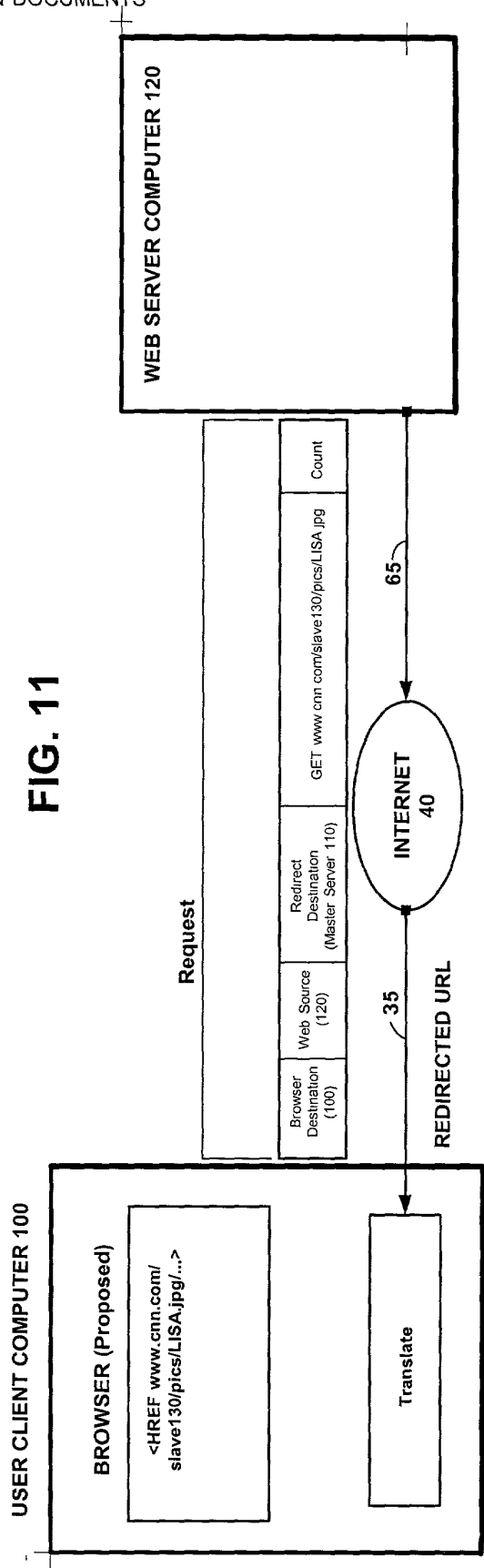
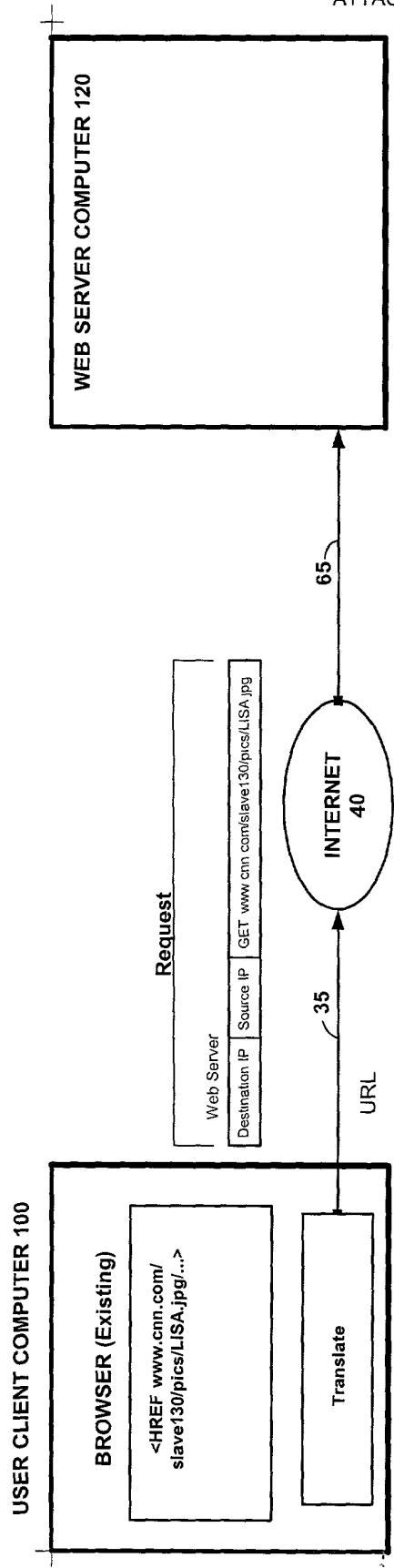
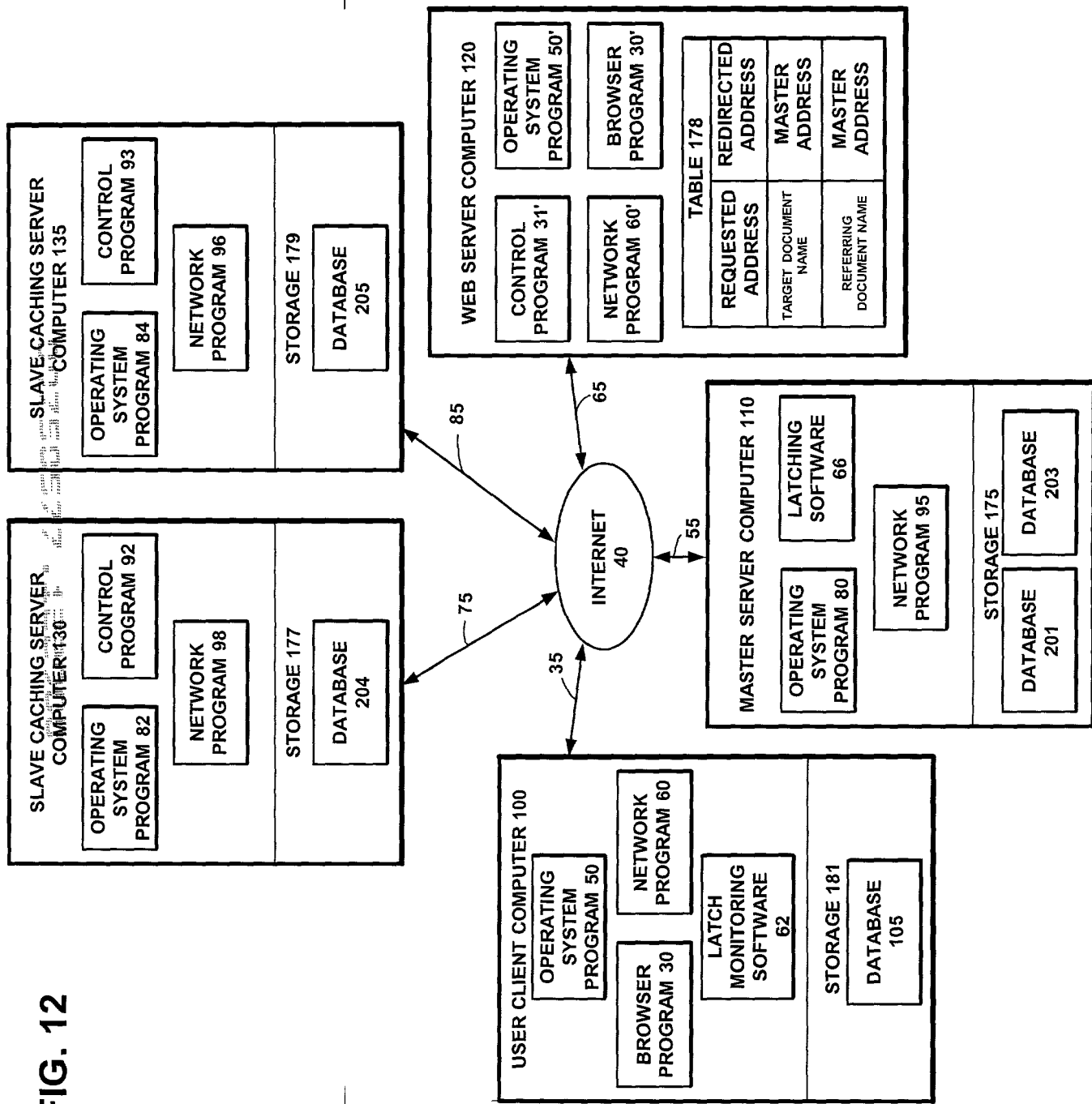


FIG. 12



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ATTACHMENTS IN DOCUMENTS

FIG. 13

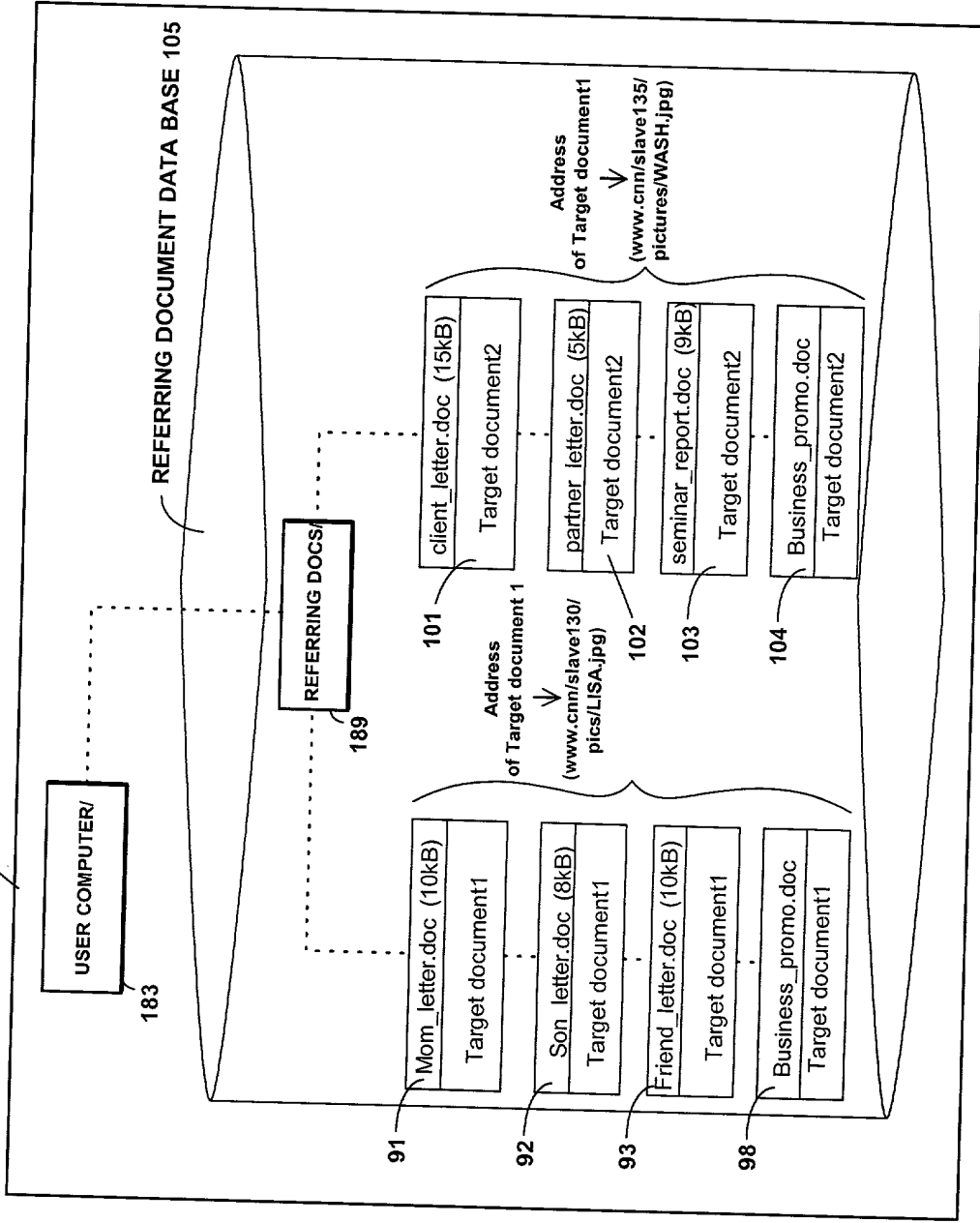


FIG. 14 is a block diagram of a system architecture for document management. The system includes a MASTER110/ component (176) connected to a STORAGE 175. The MASTER110/ component is also connected to a PERMISSIONS DATA BASE 203 (DB203/) and an OWNER'S DATA BASE 201 (DB201/). The PERMISSIONS DATA BASE 203 contains a table with columns: URL OF TARGET DOCUMENT IN SLAVE CACHING SERVER COMPUTER (130 or 135), ACCESS CODE ASSOCIATED WITH TARGET DOCUMENT IN SLAVE CACHING SERVER COMPUTER (130 or 135), and a third column with values 12345, 68142, 30156, 80121, 12349, 08756, 28101, 37412. The OWNER'S DATA BASE 201 contains a table with columns: URL OF TARGET DOCUMENT IN SLAVE CACHING SERVER COMPUTER (130 or 135), ALL REFERRING DOCUMENTS HAVING A HYPERTEXT LINK POINTING TO A URL OF A TARGET DOCUMENT (TARGET DOCUMENTS STORED IN SLAVE CACHING SERVER COMPUTER (130 or 135)), and a third column with values: smith@aol nsf/Mom_letter doc, smith@aol com/Son_letter doc, newman@compuserve com/Friend_ltr doc, hynes@lbn com/Business_promo doc, smith@aol com/client_letter doc, smith@sachsinc com/partner_letter doc, tjones@uspio gov/seminar_report doc, yln@lbn com/Business_promo doc. The OWNER'S DATA BASE 201 also includes two USE TABLE 1 and USE TABLE 2 sections, each with a table of counts for various documents.

STORAGE 175

MASTER110/

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DB203/

PERMISSIONS DATA BASE 203

URL OF TARGET DOCUMENT IN SLAVE CACHING SERVER COMPUTER (130 or 135) (ID OF TARGET DOCUMENT)	ACCESS CODE ASSOCIATED WITH TARGET DOCUMENT IN SLAVE CACHING SERVER COMPUTER (130 or 135)	
www crn com/slave130/pics/ LISA.jpg	12345, 68142, 30156, 80121	
www crn com/slave135/pictures/ WASH.jpg	12349, 08756, 28101, 37412	

DB201/

OWNER'S DATA BASE 201

URL OF TARGET DOCUMENT IN SLAVE CACHING SERVER COMPUTER (130 or 135)	ALL REFERRING DOCUMENTS HAVING A HYPERTEXT LINK POINTING TO A URL OF A TARGET DOCUMENT (TARGET DOCUMENTS STORED IN SLAVE CACHING SERVER COMPUTER (130 or 135))	
www crn com/slave130/pics/ LISA.jpg	smith@aol nsf/Mom_letter doc, smith@aol com/Son_letter doc, newman@compuserve com/Friend_ltr doc, hynes@lbn com/Business_promo doc	
www crn com/slave135/pictures/ WASH.jpg	smith@aol com/client_letter doc, smith@sachsinc com/partner_letter doc, tjones@uspio gov/seminar_report doc, yln@lbn com/Business_promo doc	

USE TABLE 1

LISA.jpg	COUNT = 4
WASH.jpg	COUNT = 0
KAREN.jpg	COUNT = 0
TRAVEL.jpg	COUNT = 0

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USE TABLE 2

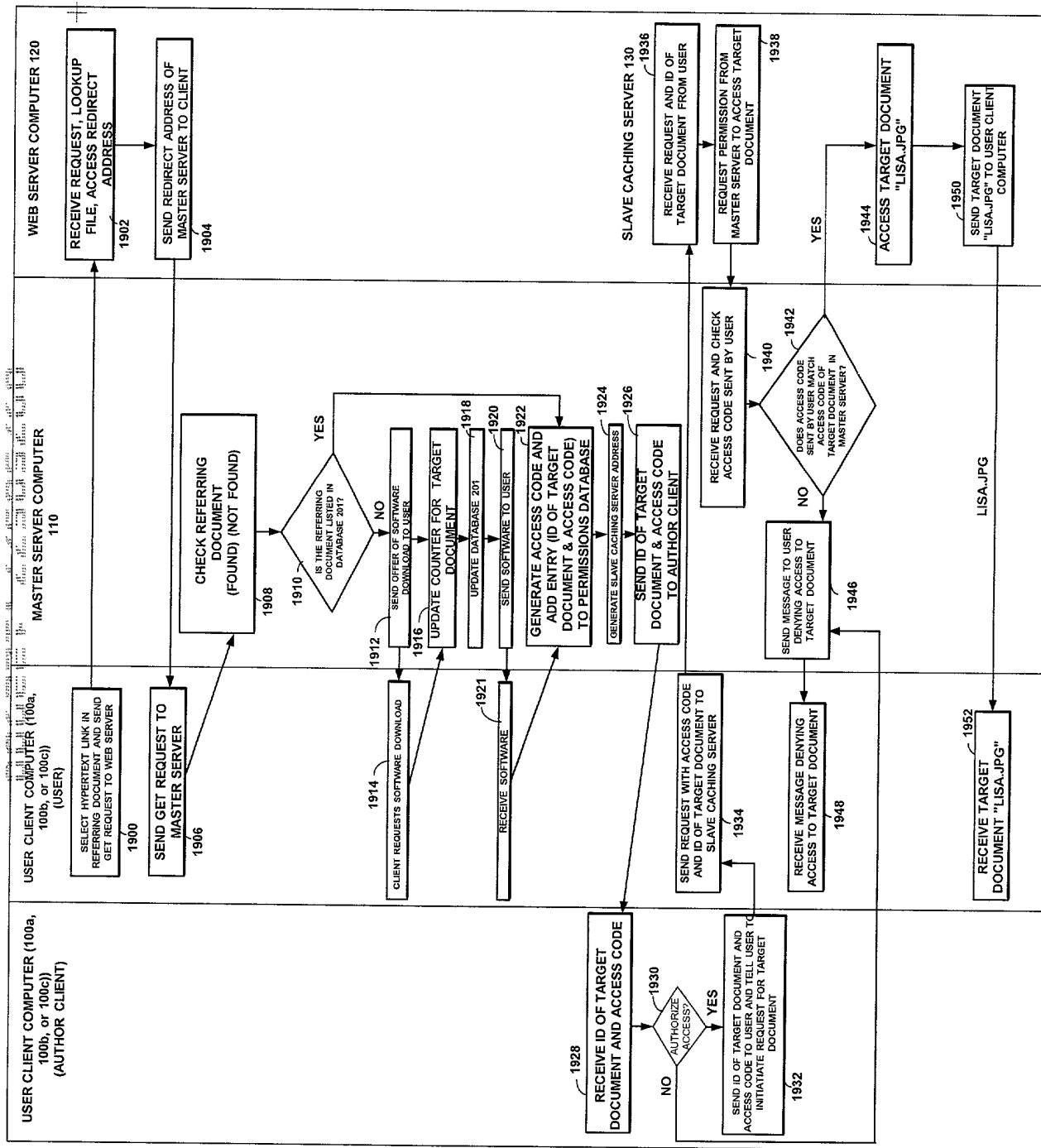
WASH.jpg	COUNT = 4
PARIS.jpg	COUNT = 0
LONDON.jpg	COUNT = 0
ROME.jpg	COUNT = 0

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FIG. 14

FIG. 15

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